CONTENT (POWER INDUCTOR)

ORDERING CODE 9

PRODUCT RANGE 11

MOLDING INDUCTORS (SPM SERIES) 16

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MULTI-LAYER INDUCTOR 46

METAL MULTI-LAYER INDUCTOR 48

Ordering Code

■ Molding Inductors / Coating Inductors

S＊＊ 2520 2R2 M P S A

PRODUCT CODE

SPM：Molding Inductor
SIM：Insert Cylinder Molding Inductor
SAM：Molding Inductor(Auto Motive)
AIM：Insert Cylinder Molding Inductor (Auto Motive)
ACM：Double Molding Inductor(Auto Motive)
SPS：Coating Inductor(Superior Electric Property)
SPN：Coating Inductor(Normal)

DIMENSION (L X W) (mm)

Code	Dimension	Code	Dimension
2012	2.0 X 1.2	5050	5.0 X 5.0
2016	2.0 X 1.6	6060	6.0 X 6.0
2020	2.0 X 2.0	7070	7.0 X 7.0
2424	2.4 X 2.4	8080	8.0 X 8.0
2520	2.5 X 2.0	1010	10.0 X 10.0
3030	3.0 X 3.0	1313	13.9 X12.8
4040	4.0 X 4.0	1717	17.0 X 17.0
		2222	22.0 X 22.0

INUCTOR VAUEL

Code	R10	1R0	100	101	102
Impedance	0.1 uH	1.0 uH	10 uH	100 uH	1000 uH

TOLERANCE CODE

M：±20%　N：±30%

PACKAGING CODE

P：Embossed Reel (7”)
E：Embossed Reel (13”)

SPECIFICATION CODE

C：High Loading Current for Isat(飽和電流)=20%
D：High Loading Current+ Low DCRC(U-Turn Process)
K：Standard with vertical mark-2
L：Light Loading Current
M：Standard with vertical mark-1
P：High Loading Current for Isat(飽和電流)=30%
R：Low DCR
S：Standard
T：Specific Spec.
W：Standard + Variation Terminal

THICKNESS CODE (mm)

Code	Thick	Code	Thick	Code	Thick	Code	Thick
.	- -	**9**	0.9	**I**	2.4	**R**	6.0
1	0.1	**A**	1.0	**J**	2.5	**S**	6.5
2	0.2	**B**	1.1	**K**	2.8	**T**	2.6
3	0.3	**C**	1.2	**L**	3.0	**U**	7.0
4	0.4	**D**	1.4	**M**	3.5	**V**	9.0
5	0.5	**E**	1.5	**N**	4.0	**W**	5.5
6	0.6	**F**	1.6	**O**	10.0	**X**	13
7	0.7	**G**	1.8	**P**	4.5	**Y**	8.0
8	0.8	**H**	2.0	**Q**	5.0	**Z**	3.2

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■ Multi-Layer Power Inductors

IP 2012 1R0 M P S 9

PRODUCT CODE

IP：Multilayer Power Inductor (Lead Free)

DIMENSION (L X W) (mm)

Code	Dimension	EIA
1608	1.6 x 0.80	0603
2012	2.0 X 1.25	0805
2016	2.0 X 1.60	0806
2520	2.5 X 2.00	1008

INDUCTANCE CODE

Code	R47	1R0	1R5	2R2	3R3	4R7
Inductance	0.47 uH	1.0 uH	1.5 uH	2.2 uH	3.3 uH	4.7 uH

TOLERANCE CODE

M：±20%

PACKAGING CODE

T：Paper tape reel
P：Plastic Tape

SPECIFICATION CODE

S：Standard for DC/DC converter
L：Light loading current for choke
C：High Current Type

THICKNESS CODE(mm)

6：0.65
8：0.8
9：0.9

Product Range

■ Molding Inductors

● General

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range										
				0.1uH			1uH			10uH			100uH	
SPM Series Molding - General	SPM2012_K8	2.0*1.2	0.8		0.47 uH			2.2 uH						
	SPM2016_PA	2.0*1.6	1					2.2 H						
	SPM2016_WA	2.0*1.6	1		0.47 uH			2.2 H						
	SPM2520_PA	2.5*2.0	1					2.2 uH						
	SPM2520_KA	2.5*2.0	1						4.7 uH	10 uH				
	SPM2520_WA	2.5*2.0	1		0.22 uH				4.7 uH					
	SPM2520_WC	2.5*2.0	1.2		0.47 uH				4.7 uH					
	SPM4040_KA	4.0*4.0	1						6.8 uH	10 uH				
	SPM4040_BA	4.0*4.0	1					2.2 H		10 uH				
	SPM4040_SC	4.0*4.0	1.2		0.33 uH				4.7 uH					
	SPM4040_BC	4.0*4.0	1.2	0.15 uH					4.7 uH					
	SPM4040_SE	4.0*4.0	1.5				1 uH							
	SPM4040_SH	4.0*4.0	2		0.22 uH					10 uH				
	SPM4040_BH	4.0*4.0	2	0.1 uH						10 uH				
	SPM4040_SL	4.0*4.0	3						4.7 uH	10 uH				
	SPM5050_SE	5.0*5.0	1.5		0.22 uH					10 uH				
	SPM5050_BE	5.0*5.0	1.5		0.47 uH		1 uH							
	SPM5050_SG	5.0*5.0	1.8				1 uH			10 uH				
	SPM5050_BG	5.0*5.0	1.8		0.47 uH					10 uH				
	SPM5050_SH	5.0*5.0	2		0.22 uH					10 uH				
	SPM5050_SL	5.0*5.0	3				1 uH				22 uH			
	SPM5050_BL	5.0*5.0	3	0.1 uH						10 uH				
	SPM7070_KA	7.0*7.0	1					2.2 uH		10 uH				
	SPM7070_BA	7.0*7.0	1						4.7 uH	10 uH				
	SPM7070_SE	7.0*7.0	1.5		0.22 uH					10 uH				
	SPM7070_BE	7.0*7.0	1.5		0.47 uH					10 uH				
	SPM7070_SG	7.0*7.0	1.8	0.1 uH						10 uH				
	SPM7070_BG	7.0*7.0	1.8	0.1 uH							22 uH			
	SPM7070_SI	7.0*7.0	2.4		0.22 uH					10 uH				
	SPM7070_BI	7.0*7.0	2.4		0.22 uH						22 uH			
	SPM7070_SL	7.0*7.0	3	0.1 uH								47 uH		
	SPM7070_BL	7.0*7.0	3	0.1 uH								47 uH		
	SPM7070_CL	7.0*7.0	3	0.1 uH								47 uH		
	SPM7070_SN	7.0*7.0	4						6.8 uH		33 uH			
	SPM7070_BN	7.0*7.0	4		0.68 uH							47 uH		
	SPM7070_SQ	7.0*7.0	5		0.36 uH							68 uH		
	SPM7070_BQ	7.0*7.0	5		0.47 uH							47 uH		
	SPM8080_SN	8.0*8.0	4				1 uH			10 uH				
	SPM8080_BN	8.0*8.0	4		0.22 uH							47 uH		

Power Inductors

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TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range															
				0.1uH				1uH			10uH			100uH					
SPM Series Molding - General	SPM1010_SN	10.0*10.0	4								2.2 uH					68 uH			
	SPM1010_TN	10.0*10.0	4			0.47 uH					1.5 uH								
	SPM1010_BN	10.0*10.0	4	0.15 uH														100 uH	
	SPM1010_SW	10.0*10.0	5.5										10 uH					100 uH	
	SPM1313_SM	13.0*13.0	3.5					1 uH			2.2 uH								
	SPM1313_SQ	13.0*13.0	5								2.2 uH				22 uH				
	SPM1313_TQ	13.0*13.0	5			0.68 uH					1.5 uH								
	SPM1313_BQ	13.0*13.0	5			0.22 uH										68 uH			
	SPM1313_SR	13.0*13.0	6								2.2 uH								150 uH
	SPM1313_BR	13.0*13.0	6									4.7 uH							150 uH
	SPM1717_BU	17.0*17.0	7								1.5 uH							100 uH	
	SPM2222_SX	22.0*22.0	13									4.7 uH			20 uH				
	SPM2222_BX	22.0*22.0	13					1 uH				4.7 uH						100 uH	

- Industrial

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range															
				0.1uH				1uH			10uH			100uH					
SIM Series Molding - Industrial	SIM1313_SN	13.0*13.0	4												22 uH			100 uH	
	SIM1313_SR	13.0*13.0	6												22 uH			100 uH	

- Automotive Application
- General Molding

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range															
				0.1uH				1uH			10uH			100uH					
SAM Series Molding Inductor (AutoMotive)	SAM4040_SC	4.0*4.0	1.2			0.33 uH						4.7 uH							
	SAM4040_LC	4.0*4.0	1.2			0.33 uH						4.7 uH							
	SAM4040_SH	4.0*4.0	2			0.22 uH								10 uH					
	SAM4040_LH	4.0*4.0	2			0.22 uH								10 uH					
	SAM5050_SE	5.0*5.0	1.5			0.22 uH								10 uH					
	SAM5050_LE	5.0*5.0	1.5			0.22 uH								10 uH					
	SAM5050_SG	5.0*5.0	1.8					1 uH						10 uH					
	SAM5050_LG	5.0*5.0	1.8					1 uH						10 uH					
	SAM5050_SH	5.0*5.0	2			0.22 uH								10 uH					
	SAM5050_LH	5.0*5.0	2			0.22 uH								10 uH					
	SAM5050_SL	5.0*5.0	3					1 uH							22 uH				
	SAM5050_LL	5.0*5.0	3					1 uH							22 uH				
	SAM5050_SN	5.0*5.0	4									4.7 uH			33 uH				
	SAM5050_L/TN	5.0*5.0	4									4.7 uH			33 uH				
	SAM7070_SE	7.0*7.0	1.5			0.22 uH								10 uH					
	SAM7070_LE	7.0*7.0	1.5			0.22 uH								10 uH					
	SAM7070_SG	7.0*7.0	1.8	0.1 uH										10 uH					
	SAM7070_LG	7.0*7.0	1.8	0.1 uH										10 uH					

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TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range												
				0.1uH			1uH			10uH			100uH			
SAM Series Molding Inductor (AutoMotive)	SAM7070_SL	7.0*7.0	3	0.1 uH									47 uH			
	SAM7070_LL	7.0*7.0	3	0.1 uH									47 uH			
	SAM7070_SN	7.0*7.0	4							6.8 uH			33 uH			
	SAM7070_LN	7.0*7.0	4							6.8 uH			33 uH			
	SAM7070_SQ	7.0*7.0	5		0.36 uH								68 uH			
	SAM7070_LQ	7.0*7.0	5		0.36 uH								68 uH			
	SAM8080_SW	8.0*8.0	5.5						2.2 uH						100 uH	
	SAM8080_LW	8.0*8.0	5.5						2.2 uH						100 uH	
	SAM1010_TN	10.0*10.0	4		0.47 uH				1.5 uH							
	SAM1010_SN	10.0*10.0	4						2.2 uH						100 uH	
	SAM1010_LN	10.0*10.0	4		0.47 uH										100 uH	
	SAM1010_SW	10.0*10.0	5.5							6.8 uH					100 uH	
	SAM1010_LW	10.0*10.0	5.5							6.8 uH					100 uH	
	SAM1313_TQ	13.0*13.0	5				0.68 uH		1.5 uH							
	SAM1313_SQ	13.0*13.0	5						2.2 uH				22 uH			
	SAM1313_SR	13.0*13.0	6						2.2 uH							150 uH
	SAM1313_LR	13.0*13.0	6						3.3 uH							150 uH

● High Efficiency Molding

TCC	Series	Size (mm	Thickness Max.(mm)	Inductance Range												
				0.1uH			1uH			10uH			100uH			
AIM Series Molding -Insert Cylinder (Auto Motive)	AIM1313_SN	13.0*13.0	4									22 uH			100 uH	
	AIM1313_SR	13.0*13.0	6									22 uH			100 uH	

● Double Molding

TCC	Series	Size (mm	Thickness Max.(mm)	Inductance Range												
				0.1uH			1uH			10uH			100uH			
ACM Series Double Molding (Auto Motive)	ACM7070_SR	7.0*7.0	6							4.7 uH		33 uH				
	ACM1010_SY	10.0*10.0	8								10 uH		47 uH			
	ACM1313_SS	13.0*13.0	6.5								10 uH	33 uH				
	ACM1313_SY	13.0*13.0	8								10 uH	15 uH				
	ACM1313_SV	13.0*13.0	9									22 uH	33 uH			
	ACM1313_SO	13.0*13.0	10									22 uH	33 uH			

■ Coating Inductor

● Metal Coating

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range											
				0.1uH				1uH			10uH			100uH		
SPS Series Coating Inductor	SPS2016_CA	2.0*1.6	1				0.47 uH				10 uH					
	SPS2520_CA	2.5*2.0	1				0.47 uH				10 uH					
	SPS2520_CC	2.5*2.0	1.2				0.47 uH			6.8 uH						
	SPS3030_CA	3.0*3.0	1				0.47 uH				10 uH					
	SPS3030_CC	3.0*3.0	1.2				0.33 uH			4.7 uH						
	SPS4040_CA	4.0*4.0	1				0.47 uH				10 uH					
	SPS4040_CC	4.0*4.0	1.2				0.47 uH				10 uH					
	SPS4040_CH	4.0*4.0	2.1			0.33 uH							22 uH			

● Normal

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range											
				0.1uH				1uH			10uH			100uH		
SPN Series Coating Inductor Normal	SPN2016_SA	2.0*1.6	1				0.47 uH				10 uH					
	SPN2520_SA	2.5*2.0	1				0.5 uH				10 uH					
	SPN2520_SC	2.5*2.0	1.2			0.24 uH					10 uH					
	SPN3030_S/CA	3.0*3.0	1.1			2.2 uH					10 uH					
	SPN3030_SC	3.0*3.0	1.3						1 uH					47 uH		
	SPN3030_SE	3.0*3.0	1.7						1 uH					47 uH		
	SPN4040_SC	4.0*4.0	1.2						1 uH				22 uH			
	SPN4040_SG	4.0*4.0	1.8						1 uH				22 uH			
	SPN4040_SL	4.0*4.0	3.1				0.68 uH						33 uH			
	SPN5050_SH	5.0*5.0	2.2				0.47 uH						22 uH			
	SPN5050_SN	5.0*5.0	4						1 uH						100 uH	
	SPN6060_SC	6.0*6.0	1.2								6.8 uH	10 uH				
	SPN6060_SH	6.0*6.0	2				0.8 uH						22 uH			
	SPN6060_SK	6.0*6.0	2.8							2.2 uH						220 uH
	SPN6060_SP	6.0*6.0	4.5						1 uH				33 uH			
	SPN8080_SN	8.0*8.0	4.2						1 uH						100 uH	

■ Multi-Layer Inductor

● General

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range							
				0.1uH			1uH			10uH	
IP Series Ferrite	IP1608_S8	1.6*0.80	0.95				1 uH	2.2 uH			
	IP2012_S9	2.0*1.25	1			0.47 uH			4.7 uH		
	IP2012_L9	2.0*1.25	1					2.2 uH	4.7 uH		
	IP2016_S9	2.0*1.60	1			0.47 uH			4.7 uH		
	IP2520_S9	2.5*2.00	1			0.47 uH			4.7 uH		

■ Metal Multi-Layer Inductor

● General

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range							
				0.1uH			1uH			10uH	
IP Series Metal	IP1608_S8	1.6*0.80	0.65			0.47 uH	1 uH				
	IP2012_C8	2.0*1.25	0.8		0.11 uH	0.47 uH					

Molding Inductors (SPM / SIM Series)

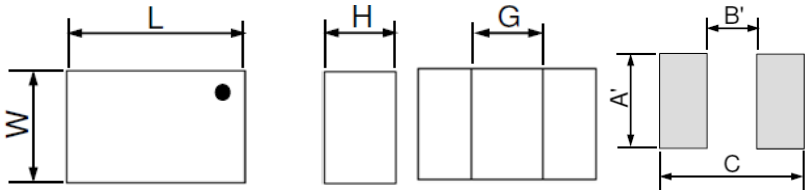
■ Feature

1. Magnetic shielded construction
2. Frequency range up to 3.0MHz
3. Higher rated current, capable handling at high current spikes

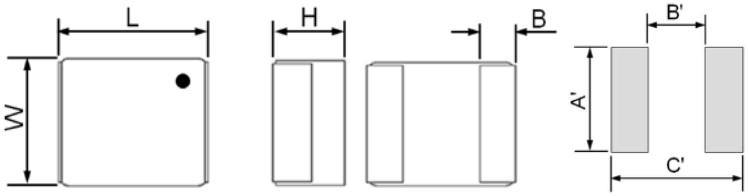
■ Application

1. Notebook / Desktop applications
2. VGA card applications
3. DC-DC Converter applications
4. Low profile, high current power supplies

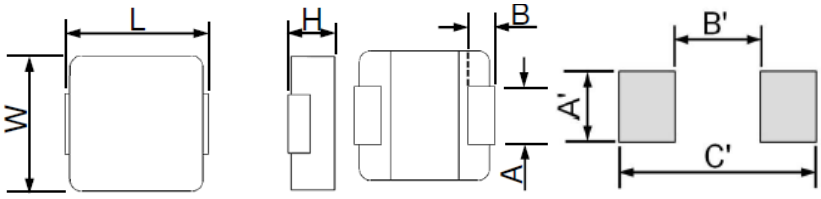
■ External Dimension



Series	L (mm)	W (mm)	H (mm)	G (Typ)	Recommended Land Patterns			Package	
					A' (mm)	B' (mm)	C (mm)	Reel	Amount(pcs)
SPM2012□□□□PK8	2.0±0.2	1.2±0.2	0.8Max	0.6	1.3	0.5	2.1	7”	3,000



Series	L (mm)	W (mm)	H (mm)	B (mm)	Recommended Land Patterns			Package	
					A' (mm)	B' (mm)	C' (mm)	Reel	Amount(pcs)
SPM2016□□□□PPA	2.0±0.1	1.6±0.1	1.0max	0.5±0.2	1.6	0.7	2.0	7”	3,000
SPM2016□□□□PWA	2.0±0.2	1.6±0.2	1.0max	0.5±0.3	1.6	0.9	2.0	7”	3,000
SPM2520□□□□PPA	2.5±0.2	2.0±0.2	1.0max	0.6±0.2	2.0	1.2	2.8	7”	3,000
SPM2520□□□□PKA	2.5±0.2	2.0±0.2	1.0max	0.7 Typ.	2.1	0.6	2.6	7”	3,000
SPM2520□□□□PWA	2.5±0.2	2.0±0.2	1.0max	0.6±0.3	2.0	1.2	2.8	7”	3,000
SPM2520□□□□PWC	2.5±0.2	2.0±0.2	1.2max	0.6±0.3	2.0	1.2	2.8	7”	3,000



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount(pcs)
SPM4040□□□□EKA	4.1±0.2	4.1±0.2	0.8±0.2	1.8±0.2	0.8±0.2	2.0	2.2	4.4	13”	3,000
SPM4040□□□□EBA*	4.1±0.2	4.1±0.2	0.8±0.2	1.8±0.2	0.8±0.2	2.2	2.2	4.4	13”	3,000
SPM4040□□□□ESC	4.7±0.3	4.2±0.2	1.0±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13”	3,500
SPM4040□□□□ESE	4.7±0.3	4.2±0.2	1.3±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13”	2,000
SPM4040□□□□ESH	4.7±0.3	4.2±0.2	1.8±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13”	2,000
SPM4040□□□□ESL	4.7±0.3	4.2±0.2	2.8±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13”	2,000

*New Series

For some special parts, please see the “Part Number & Characteristic” for detail specification

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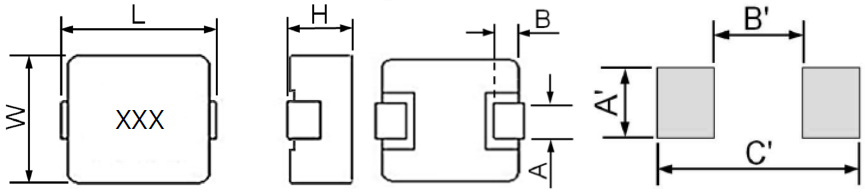
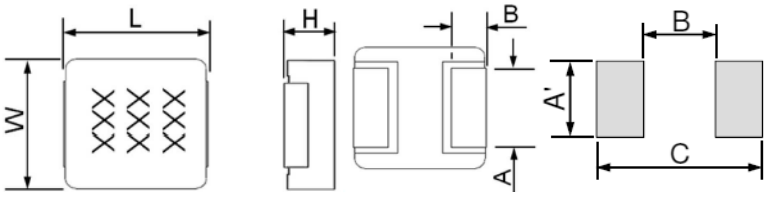


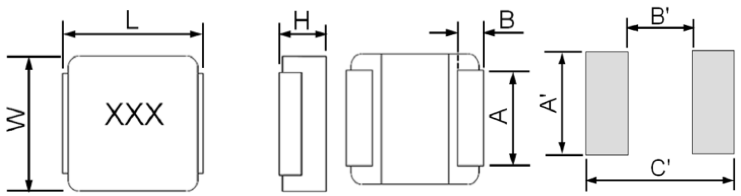
Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount(pcs)
SPM4040□□□□EBC*	4.4±0.35	4.2±0.25	1.0±0.2	2.0±0.3	0.8±0.3	2.5	2.2	5.2	13”	3,000
SPM4040□□□□EBH*	4.4±0.35	4.2±0.25	1.8±0.2	2.0±0.3	0.8±0.3	2.5	2.2	5.2	13”	3,000
SPM5050□□□□ESE	5.7±0.3	5.2±0.2	1.3±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	3,000
SPM5050□□□□EBE*	5.4±0.35	5.2±0.2	1.3±0.2	2.2±0.3	1.2±0.2	2.5	2.2	6.0	13”	3,000
SPM5050□□□□ESG	5.7±0.3	5.2±0.2	1.6±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	3,000
SPM5050□□□□EBG*	5.4±0.35	5.2±0.2	1.6±0.2	2.2±0.3	1.2±0.2	2.5	2.2	6.0	13”	2,000
SPM5050□□□□ESH	5.7±0.3	5.2±0.2	1.8±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	3,000
SPM5050□□□□ESL	5.7±0.3	5.2±0.2	2.8±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	2,000
SPM5050□□□□EBL*	5.4±0.35	5.2±0.2	2.8±0.2	2.2±0.3	1.2±0.2	2.5	2.2	6.0	13”	2,000
SPM7070□□□□ESE	7.0±0.3	6.6±0.2	1.3±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	2,000
SPM7070□□□□EBE*	7.0±0.3	6.6±0.2	1.3±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13”	2,000
SPM7070□□□□ESG	7.2±0.3	6.6±0.2	1.6±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	2,000
SPM7070□□□□EBG*	7.0±0.3	6.6±0.2	1.6±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13”	2,000
SPM7070□□□□ESI	7.2±0.3	6.6±0.2	2.2±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	2,000
SPM7070□□□□EBI*	7.0±0.3	6.6±0.2	2.2±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13”	1,500
SPM7070□□□□E_L*	7.3±0.3	6.6±0.3	2.8±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13”	1,500
SPM7070□□□□ESL	7.2±0.3	6.6±0.2	2.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	2,000
SPM7070□□□□ESN	7.2±0.3	6.6±0.2	3.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	2,000
SPM7070□□□□EBN*	7.0±0.3	6.6±0.2	3.8±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13”	1,000
SPM7070□□□□ESQ	7.2±0.3	6.6±0.2	4.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	1,000
SPM7070□□□□EBQ*	7.0±0.3	6.6±0.2	4.8±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13”	1,000
SPM8080□□□□ESN	8.65±0.25	8.0±0.2	3.8±0.2	5.1±0.3	1.6±0.3	5.4	4.8	9.6	13”	800
SPM8080□□□□EBN*	8.8±0.4	8.2±0.3	3.8±0.2	5.0±0.3	1.4±0.3	5.5	4.0	9.5	13”	800
SPM1010□□□□E_N	11.2±0.3	10.0±0.2	3.8±0.2	3.0±0.5	2.0±0.5	4.0	5.5	13.5	13”	800
SPM1010□□□□EBN*	11.5MAX	10.0±0.3	3.8±0.2	3.0±0.5	2.0±0.5	4.1	5.4	13.6	13”	500
SPM1010□□□□ESW	11.2±0.3	10.0±0.2	5.3±0.2	3.0±0.5	2.0±0.5	4.0	5.5	13.5	13”	800
SPM1313□□□□ESM*	13.9±0.3	12.8±0.2	3.3±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500
SPM1313□□□□E_Q	13.9±0.3	12.8±0.2	4.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500
SPM1313□□□□EBQ*	13.45±0.35	12.6±0.3	4.8±0.2	R22~2R2 3.85 ±0.5 3R3~680 5.0±0.3	2.0 ± 0.5	5.5	8.0	14.5	13”	500
SPM1313□□□□ESR	13.9±0.3	12.8±0.2	5.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500
SPM1313□□□□EBR*	13.45±0.35	12.6±0.3	5.8±0.2	5.0±0.3	2.0±0.5	5.5	8.0	14.5	13”	500
SIM1313□□□□ESN*	13.9±0.3	12.8±0.2	3.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500
SIM1313□□□□ESR*	13.9±0.3	12.8±0.2	5.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B (mm)	C (mm)	Reel	Amount(pcs)
SPM7070□□□□EKA	6.1±0.3	6.1±0.3	0.8±0.2	4.0±0.3	1.75±0.3	4.5	2.8	7.5	13”	2,000
SPM7070□□□□EBA*	6.1±0.3	6.1±0.3	0.8±0.2	4.0±0.3	1.75±0.3	4.5	2.8	7.5	13”	3,000

*New Series

For some special parts, please see the “Part Number & Characteristic” for detail specification



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount(pcs)
SPM1717□□□□EBU*	17.15±0.35	17.15MAX	7.0MAX	12.0±0.3	2.5±0.5	12.8	11.2	18.2	13"	200
SPM2222□□□□ESX	22.5±0.5	22.0 ± 0.5	13.0Max	18.5±0.5	5.0±0.5	18.8	11.5	23.3	13"	50
SPM2222□□□□EBX*	23.5±0.5	22.0±0.3	12.6±0.4	19.0±0.3	5.0±0.4	19.6	12.5	24.0	13"	80

*New Series

For some special parts, please see the "Part Number & Characteristic" for detail specification

■ Part Numbers & Characteristics (General Purpose)

● SPM2012

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM2012R47MPK8	2.00	1.20	0.80	0.47	uH	±20%	26.0	30.0	3,900	3,700	4,800	4,300	1MHz/1V
SPM20121R0MPK8				1.00	uH	±20%	45.0	55.0	3,500	3,200	3,800	3,300	1MHz/1V
SPM20122R2MPK8				2.20	uH	±20%	90.0	110.0	1,800	1,600	2,100	1,900	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPM2016

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM20162R2MPPA	2.00	1.60	1.00	2.20	uH	±20%	142.0	150.0	2,200	2,000	2,650	2,450	1MHz/1V
SPM2016R47MPWA	2.00	1.60	1.00	0.47	uH	±20%	33.0	40.0	3,500	3,150	4,400	4,000	1MHz/1V
SPM20161R0MPWA				1.00	uH	±20%	60.0	69.0	2,600	2,260	2,900	2,610	1MHz/1V
SPM20161R5MPWA				1.50	uH	±20%	114.0	129.0	2,000	1,810	2,500	2,250	1MHz/1V
SPM20162R2MPWA				2.20	uH	±20%	135.0	150.0	1,700	1,500	1,900	1,710	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPM2520

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM25202R2MPPA	2.50	2.0	1.0	2.20	uH	±20%	89.0	102.0	2,400	2,200	3,400	3,000	1MHz/1V
SPM25204R7MPKA	2.50	2.0	1.0	4.70	uH	±20%	200.0	240.0	1,600	1,400	2,150	1,950	1MHz/1V
SPM2520100MPKA				10.0	uH	±20%	500.0	575.0	1,050	950	1,400	1,300	1MHz/1V
SPM2520R22MPWA	2.50	2.00	1.00	0.22	uH	±20%	9.0	12.5	5,900	5,300	7,900	7,200	1MHz/1V
SPM2520R33MPWA				0.33	uH	±20%	21.0	26.0	4,400	4,000	6,600	6,000	1MHz/1V
SPM2520R47MPWA				0.47	uH	±20%	27.0	32.0	3,900	3,510	5,000	4,500	1MHz/1V
SPM2520R68MPWA				0.68	uH	±20%	37.0	44.0	3,400	3,060	4,300	3,870	1MHz/1V
SPM25201R0MPWA				1.00	uH	±20%	45.0	54.0	3,000	2,700	3,500	3,150	1MHz/1V
SPM25201R5MPWA				1.50	uH	±20%	76.0	91.0	2,500	2,250	2,600	2,340	1MHz/1V
SPM25202R2MPWA				2.20	uH	±20%	99.0	119.0	2,300	2,070	2,400	2,160,	1MHz/1V
SPM25204R7MPWA				4.70	uH	±20%	220.0	262.0	1,360	1,220	1,800	1,620	1MHz/1V
SPM2520R47MPWC	2.50	2.00	1.2	0.47	uH	±20%	21.0	25.0	4,600	4,180	5,300	4,950	1MHz/1V
SPM25201R0MPWC				1.00	uH	±20%	41.0	49.0	3,500	3,180	4,400	4,040	1MHz/1V
SPM25201R5MPWC				1.50	uH	±20%	64.0	77.0	2,500	2,270	3,200	2,910	1MHz/1V
SPM25202R2MPWC				2.20	uH	±20%	85.0	98.0	2,270	2,060	3,000	2,730	1MHz/1V
SPM25204R7MPWC				4.70	uH	±20%	196.0	235.0	1,610	1,400	1,900	1,580	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPM4040

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM40406R8MEKA	4.10	4.10	1.00	6.80	uH	±20%	210.0	255.0	1,750	1,600	2,100	1,700	100KHz/1V
SPM4040100MEKA				10.00	uH	±20%	280.0	336.0	1,750	1,500	1,850	1,650	100KHz/1V
SPM40402R2MEBA	4.10	4.10	1.00	2.20	uH	±20%	85.0	100.0	3,400	3,000	4,300	3,500	100KHz/1V
SPM40404R7MEBA				4.70	uH	±20%	140.0	160.0	2,600	2,300	2,500	2,100	100KHz/1V
SPM40406R8MEBA				6.80	uH	±20%	210.0	255.0	2,000	1,800	2,200	1,850	100KHz/1V
SPM4040100MEBA				10.00	uH	±20%	280.0	236.0	1,500	1,300	1,800	1,600	100KHz/1V
SPM4040R33MESC	4.70	4.20	1.20	0.33	uH	±20%	14.0	16.5	- -	6,500	- -	9,000	100KHz/1V
SPM4040R47MESC				0.47	uH	±20%	19.0	21.0	- -	6,000	- -	6,800	100KHz/1V
SPM4040R68MESC				0.68	uH	±20%	32.0	36.0	- -	4,500	- -	6,000	100KHz/1V

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets.
(Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM40401R0MESC	4.70	4.20	1.20	1.00	uH	±20%	43.0	47.0	- -	4,200	- -	5,200	100KHz/1V
SPM40401R5MESC				1.50	uH	±20%	68.0	75.0	- -	3,250	- -	4,000	100KHz/1V
SPM40402R2MESC				2.20	uH	±20%	79.4	83.5	- -	2,750	- -	3,500	100KHz/1V
SPM40403R3MESC				3.30	uH	±20%	120.0	138.0	- -	2,300	- -	3,000	100KHz/1V
SPM40404R7MESC				4.70	uH	±20%	175.0	195.0	- -	1,800	- -	2,800	100KHz/1V
SPM4040R15MEBC	4.40	4.20	1.20	0.15	uH	±20%	7.5	9.0	- -	7,500	- -	15,000	100KHz/1V
SPM4040R22MEBC				0.22	uH	±20%	9.0	11.0	- -	7,000	- -	11,000	100KHz/1V
SPM4040R33MEBC				0.33	uH	±20%	16.0	19.0	- -	6,500	- -	8,400	100KHz/1V
SPM4040R47MEBC				0.47	uH	±20%	19.0	21.0	- -	6,000	- -	6,800	100KHz/1V
SPM4040R68MEBC				0.68	uH	±20%	32.0	36.0	- -	4,700	- -	6,000	100KHz/1V
SPM40401R0MEBC				1.00	uH	±20%	43.0	47.0	- -	4,500	- -	5,500	100KHz/1V
SPM40401R5MEBC				1.50	uH	±20%	68.0	75.0	- -	3,250	- -	4,000	100KHz/1V
SPM40402R2MEBC				2.20	uH	±20%	79.4	83.5	- -	2,750	- -	3,000	100KHz/1V
SPM40404R7MEBC				4.70	uH	±20%	175.0	195.0	- -	1,800	- -	2,200	100KHz/1V
SPM40401R0MESE	4.70	4.20	1.50	1.00	uH	±20%	31.0	38.0	6,000	4,300	8,900	6,700	100KHz/1V
SPM4040R22MESH	4.70	4.20	2.00	0.22	uH	±20%	6.0	6.6	- -	9,000	- -	12,500	100KHz/1V
SPM4040R47MESH				0.47	uH	±20%	12.5	14.0	- -	7,000	- -	9,500	100KHz/1V
SPM4040R68MESH				0.68	uH	±20%	19.4	21.0	- -	5,200	- -	8,000	100KHz/1V
SPM40401R0MESH				1.00	uH	±20%	24.0	27.0	- -	4,500	- -	7,000	100KHz/1V
SPM40401R5MESH				1.50	uH	±20%	38.0	46.0	- -	4,000	- -	6,000	100KHz/1V
SPM40402R2MESH				2.20	uH	±20%	52.0	58.0	- -	3,000	- -	5,000	100KHz/1V
SPM40403R3MESH				3.30	uH	±20%	74.0	87.0	- -	2,500	- -	4,000	100KHz/1V
SPM40404R7MESH				4.70	uH	±20%	92.0	105.0	- -	2,200	- -	3,000	100KHz/1V
SPM40406R8MESH				6.80	uH	±20%	162.0	178.0	- -	2,000	- -	2,100	100KHz/1V
SPM4040100MESH				10.00	uH	±20%	256.0	282.0	- -	1,600	- -	1,800	100KHz/1V
SPM4040R10MEBH	4.40	4.20	2.00	0.10	uH	±20%	3.4	4.0	- -	13,000	- -	22,000	100KHz/1V
SPM4040R22MEBH				0.22	uH	±20%	6.0	6.6	- -	9,500	- -	12,500	100KHz/1V
SPM4040R33MEBH				0.33	uH	±20%	9.8	11.0	- -	10,000	- -	12,000	100KHz/1V
SPM4040R47MEBH				0.47	uH	±20%	12.5	14.0	- -	7,500	- -	9,500	100KHz/1V
SPM4040R56MEBH				0.56	uH	±20%	14.0	16.0	- -	7,000	- -	9,000	100KHz/1V
SPM4040R68MEBH				0.68	uH	±20%	16.5	18.0	- -	7,000	- -	8,000	100KHz/1V
SPM40401R0MEBH				1.00	uH	±20%	24.0	27.0	- -	6,000	- -	7,000	100KHz/1V
SPM40401R2MEBH				1.20	uH	±20%	22.0	27.0	- -	6,000	- -	6,500	100KHz/1V
SPM40401R5MEBH				1.50	uH	±20%	38.0	46.0	- -	5,000	- -	5,500	100KHz/1V
SPM40402R2MEBH				2.20	uH	±20%	52.0	58.0	- -	4,500	- -	5,000	100KHz/1V
SPM40403R3MEBH				3.30	uH	±20%	74.0	87.0	- -	3,300	- -	3,500	100KHz/1V
SPM40404R7MEBH				4.70	uH	±20%	92.0	105.0	- -	2,800	- -	3,000	100KHz/1V
SPM40406R8MEBH				6.80	uH	±20%	100.0	175.0	- -	2,400	- -	2,500	100KHz/1V
SPM4040100MEBH				10.00	uH	±20%	256.0	282.0	- -	1,600	- -	2,000	100KHz/1V
SPM40404R7MESL	4.70	4.20	3.00	4.7	uH	±20%	53.5	61.5	- -	3,500	- -	4,000	100KHz/1V
SPM4040100MESL				10.00	uH	±20%	145.0	160.0	- -	2,500	- -	2,800	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPM5050

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM5050R22NESE	5.70	5.20	1.50	0.22	uH	±30%	5.8	7.0	- -	10,000	- -	17,000	100KHz/1V
SPM50501R0MESE				1.00	uH	±20%	20.0	23.0	- -	6,500	- -	9,000	100KHz/1V
SPM50501R5MESE				1.50	uH	±20%	46.0	53.0	- -	4,200	- -	7,000	100KHz/1V
SPM50502R2MESE				2.20	uH	±20%	58.0	64.0	- -	3,300	- -	6,000	100KHz/1V
SPM50503R3MESE				3.30	uH	±20%	70.0	80.0	- -	3,200	- -	4,500	100KHz/1V
SPM50504R7MESE				4.70	uH	±20%	103.0	115.0	- -	3,000	- -	4,000	100KHz/1V
SPM50506R8MESE				6.80	uH	±20%	167.0	180.0	- -	2,500	- -	3,200	100KHz/1V
SPM5050100MESE				10.00	uH	±20%	220.0	246.0	- -	2,000	- -	3,000	100KHz/1V

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM5050R47MEBE	5.40	5.20	1.50	0.47	uH	±20%	11.5	13.0	9,500	8,700	13,000	12,000	100KHz/1V
SPM5050R68MEBE				0.68	uH	±20%	13.4	15.5	9,000	8,100	11,200	9,500	100KHz/1V
SPM50501R0MEBE				1.00	uH	±20%	20.0	23.0	6,500	5,800	9,500	8,000	100KHz/1V
SPM50503R3MEBE				3.30	uH	±20%	63.0	72.0	3,300	3,000	4,500	4,000	100KHz/1V
SPM50504R7MEBE				4.70	uH	±20%	92.0	106.0	3,000	2,600	4,200	3,700	100KHz/1V
SPM50501R0MESG	5.70	5.20	1.80	1.00	uH	±20%	15.0	17.0	- -	8,000	- -	9,500	100KHz/1V
SPM50504R7MESG				4.70	uH	±20%	78.0	85.0	- -	3,500	- -	4,000	100KHz/1V
SPM50506R8MESG				6.80	uH	±20%	107.0	120.0	- -	2,800	- -	3,400	100KHz/1V
SPM5050100MESG				10.00	uH	±20%	140.0	155.0	- -	2,500	- -	3,000	100KHz/1V
SPM5050R47MEBG	5.40	5.20	1.80	0.47	uH	±20%	7.5	9.0	- -	10,500		15,500	100KHz/1V
SPM5050R56MEBG				0.56	uH	±20%	8.5	10.0	- -	9,500	- -	15,000	100KHz/1V
SPM5050R68MEBG				0.68	uH	±20%	12.0	13.8	- -	8,900	- -	11,200	100KHz/1V
SPM50501R0MEBG				1.00	uH	±20%	15.0	17.0	- -	8,000	- -	9,000	100KHz/1V
SPM50501R5MEBG				1.50	uH	±20%	23.0	26.0	- -	7,500	- -	8,000	100KHz/1V
SPM50502R2MEBG				2.20	uH	±20%	31.0	35.0	- -	5,000	- -	6,500	100KHz/1V
SPM50503R3MEBG				3.30	uH	±20%	51.0	58.0	- -	4,500	- -	5,000	100KHz/1V
SPM50504R7MEBG				4.70	uH	±20%	78.0	85.0	- -	3,500	- -	4,000	100KHz/1V
SPM50506R8MEBG				6.80	uH	±20%	107.0	120.0	- -	2,800	- -	3,400	100KHz/1V
SPM5050100MEBG				10.00	uH	±20%	140.0	155.0	- -	2,500	- -	3,000	100KHz/1V
SPM5050R22MESH	5.70	5.20	2.00	0.22	uH	±20%	4.1	4.5	- -	12,000	- -	20,000	100KHz/1V
SPM5050R24MESH				0.24	uH	±20%	5.0	5.8	- -	11,700	- -	18,500	100KHz/1V
SPM5050R33MESH				0.33	uH	±20%	5.5	5.9	- -	11,500	- -	16,000	100KHz/1V
SPM5050R47MESH				0.47	uH	±20%	8.0	10.0	- -	10,500	- -	15,500	100KHz/1V
SPM5050R56MESH				0.56	uH	±20%	8.2	10.0	- -	10,000	- -	13,000	100KHz/1V
SPM5050R68MESH				0.68	uH	±20%	10.5	13.0	- -	9,500	- -	12,000	100KHz/1V
SPM50501R0MESH				1.00	uH	±20%	15.0	17.0	- -	8,000	- -	9,500	100KHz/1V
SPM50501R2MESH				1.20	uH	±20%	19.5	22.5	- -	7,000	- -	9,000	100KHz/1V
SPM50501R5MESH				1.50	uH	±20%	24.2	27.5	- -	6,000	- -	8,500	100KHz/1V
SPM50502R2MESH				2.20	uH	±20%	30.0	35.0	- -	5,000	- -	6,500	100KHz/1V
SPM50503R3MESH				3.30	uH	±20%	49.0	55.0	- -	4,500	- -	5,500	100KHz/1V
SPM50504R7MESH				4.70	uH	±20%	75.3	81.3	- -	3,500	- -	4,500	100KHz/1V
SPM50505R6MESH				5.60	uH	±20%	85.2	92.0	- -	3,000	- -	4,000	100KHz/1V
SPM50506R8MESH				6.80	uH	±20%	107.0	120.0	- -	2,800	- -	3,600	100KHz/1V
SPM5050100MESH				10.00	uH	±20%	140.0	155.0	- -	2,400	- -	3,400	100KHz/1V
SPM50501R0MESL	5.70	5.20	3.00	1.00	uH	±20%	13.0	14.0	- -	7,000	- -	11,000	100KHz/1V
SPM50501R5MESL				1.50	uH	±20%	18.0	25.0	- -	6,200	- -	9,500	100KHz/1V
SPM50502R2MESL				2.20	uH	±20%	29.0	35.0	- -	5,500	- -	9,000	100KHz/1V
SPM50503R3MESL				3.30	uH	±20%	32.0	38.0	- -	5,000	- -	7,000	100KHz/1V
SPM50504R7MESL				4.70	uH	±20%	50.0	60.0	- -	4,400	- -	6,000	100KHz/1V
SPM50506R8MESL				6.80	uH	±20%	75.0	88.5	- -	3,400	- -	3,800	100KHz/1V
SPM5050100MESL				10.00	uH	±20%	95.0	114.0	- -	2,500	- -	3,500	100KHz/1V
SPM5050220MESL				22.00	uH	±20%	230.0	275.0	- -	2,300	- -	2,100	100KHz/1V
SPM5050R10MEBL	5.40	5.20	3.00	0.10	uH	±20%	2.5	3.0	- -	25,000	- -	30,000	100KHz/1V
SPM5050R20MEBL				0.20	uH	±20%	3.2	3.9	- -	14,000	- -	20,000	100KHz/1V
SPM5050R33MEBL				0.33	uH	±20%	4.6	5.5	- -	14,000	- -	18,000	100KHz/1V
SPM5050R47MEBL				0.47	uH	±20%	7.0	8.5	- -	11,000	- -	15,000	100KHz/1V
SPM5050R68MEBL				0.68	uH	±20%	10.0	12.0	- -	9,000	- -	11,000	100KHz/1V
SPM50501R0MEBL				1.00	uH	±20%	11.0	14.0	- -	8,500	- -	10,000	100KHz/1V
SPM50501R2MEBL				1.20	uH	±20%	13.0	16.0	- -	8,500	- -	9,500	100KHz/1V
SPM50501R5MEBL				1.50	uH	±20%	18.0	25.0	- -	8,200	- -	9,000	100KHz/1V
SPM50502R2MEBL				2.20	uH	±20%	24.0	29.0	- -	7,000	- -	7,600	100KHz/1V
SPM50503R3MEBL				3.30	uH	±20%	32.0	38.0	- -	5,500	- -	6,000	100KHz/1V
SPM50504R7MEBL				4.70	uH	±20%	50.0	60.0	- -	4,500	- -	4,600	100KHz/1V
SPM50506R8MEBL				6.80	uH	±20%	75.0	90.0	- -	3,500	- -	3,600	100KHz/1V
SPM5050100MEBL				10.00	uH	±20%	105.0	125.0	- -	3,200	- -	3,500	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

- SPM7070

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Max.	Max.	Typ.	Max.	Typ.	Max.	
SPM70702R2MEKA	6.10	6.10	1.00	2.20	uH	±20%	85.0	102.0	3,200	2,800	4,800	4,300	100KHz/1V
SPM70704R7MEKA				4.70	uH	±20%	144.0	172.0	2,200	2,000	2,800	2,500	100KHz/1V
SPM70706R8MEKA				6.80	uH	±20%	164.0	197.0	2,000	1,800	2,500	2,200	100KHz/1V
SPM7070100MEKA				10.00	uH	±20%	220.0	264.0	1,650	1,550	2,800	2,300	100KHz/1V
SPM70704R7MEBA	6.10	6.10	1.00	4.70	uH	±20%	144.0	172.0	2,200	2,000	2,800	2,500	100KHz/1V
SPM70706R8MEBA				6.80	uH	±20%	164.0	197.0	2,000	1,800	2,500	2,200	100KHz/1V
SPM7070100MEBA				10.00	uH	±20%	270.0	310.0	1,600	1,400	2,100	1,900	100KHz/1V
SPM7070R22MESE	7.00	6.60	1.50	0.22	uH	±20%	5.1	5.8	- -	11,000	- -	22,000	100KHz/1V
SPM7070R33MESE				0.33	uH	±20%	6.8	7.8	- -	10,000	- -	19,500	100KHz/1V
SPM7070R47MESE				0.47	uH	±20%	8.5	9.8	- -	9,500	- -	16,000	100KHz/1V
SPM7070R56MESE				0.56	uH	±20%	9.5	11.0	- -	9,000	- -	14,000	100KHz/1V
SPM7070R68MESE				0.68	uH	±20%	12.5	14.5	- -	8,000	- -	12,000	100KHz/1V
SPM7070R82MESE				0.82	uH	±20%	15.0	17.0	- -	7,000	- -	10,000	100KHz/1V
SPM70701R0MESE				1.00	uH	±20%	18.5	21.0	- -	5,500	- -	9,000	100KHz/1V
SPM70701R2MESE				1.20	uH	±20%	21.0	30.0	- -	5,400	- -	8,500	100KHz/1V
SPM70701R5MESE				1.50	uH	±20%	37.0	42.5	- -	5,000	- -	7,000	100KHz/1V
SPM70702R2MESE				2.20	uH	±20%	41.0	50.0	- -	4,900	- -	6,100	100KHz/1V
SPM70703R3MESE				3.30	uH	±20%	54.0	63.0	- -	3,300	- -	5,500	100KHz/1V
SPM70704R7MESE				4.70	uH	±20%	76.0	85.0	- -	3,000	- -	5,000	100KHz/1V
SPM70706R8MESE				6.80	uH	±20%	125.0	135.0	- -	2,500	- -	4,000	100KHz/1V
SPM7070100MESE				10.00	uH	±20%	165.0	175.0	- -	2,000	- -	3,000	100KHz/1V
SPM7070R47MEBE	7.00	6.60	1.50	0.47	uH	± 20%	7.3	8.5	- -	10,000	- -	16,000	100KHz/1V
SPM7070R56MEBE				0.56	uH	± 20%	9.5	11.0	- -	9,000	- -	14,000	100KHz/1V
SPM7070R68MEBE				0.68	uH	± 20%	10.0	12.0	- -	8,500	- -	12,000	100KHz/1V
SPM7070R82MEBE				0.82	uH	± 20%	15.0	17.0	- -	8,000	- -	10,000	100KHz/1V
SPM70701R0MEBE				1.00	uH	± 20%	18.5	21.0	- -	6,000	- -	9,000	100KHz/1V
SPM70702R2MEBE				2.20	uH	± 20%	43.0	54.0	- -	3,800	- -	7,000	100KHz/1V
SPM70703R3MEBE				3.30	uH	± 20%	54.0	63.0	- -	3,500	- -	5,500	100KHz/1V
SPM70704R7MEBE				4.70	uH	± 20%	76.0	85.0	- -	3,200	- -	5,000	100KHz/1V
SPM70706R8MEBE				6.80	uH	± 20%	125.0	135.0	- -	2,500	- -	4,000	100KHz/1V
SPM7070100MEBE				10.00	uH	± 20%	165.0	175.0	- -	2,000	- -	3,000	100KHz/1V
SPM7070R10MESG	7.20	6.60	1.80	0.10	uH	±20%	1.9	2.3	- -	18,000	- -	30,000	100KHz/1V
SPM7070R22MESG				0.22	uH	±20%	4.5	5.2	- -	14,000	- -	29,000	100KHz/1V
SPM7070R33MESG				0.33	uH	±20%	5.2	6.8	- -	12,000	- -	22,000	100KHz/1V
SPM7070R47MESG				0.47	uH	±20%	7.3	8.4	- -	11,000	- -	17,000	100KHz/1V
SPM7070R68MESG				0.68	uH	±20%	10.8	12.7	- -	9,000	- -	16,000	100KHz/1V
SPM7070R82MESG				0.82	uH	±20%	13.4	15.9	- -	8,000	- -	14,000	100KHz/1V
SPM70701R0MESG				1.00	uH	±20%	14.5	17.0	- -	7,000	- -	12,000	100KHz/1V
SPM70701R5MESG				1.50	uH	±20%	20.0	26.0	- -	6,000	- -	10,000	100KHz/1V
SPM70702R2MESG				2.20	uH	±20%	31.0	35.0	- -	5,000	- -	8,000	100KHz/1V
SPM70703R3MESG				3.30	uH	±20%	56.0	60.0	- -	3,500	- -	7,000	100KHz/1V
SPM70704R7MESG				4.70	uH	±20%	60.0	75.0	- -	3,500	- -	5,500	100KHz/1V
SPM70706R8MESG				6.80	uH	±20%	101.0	110.0	- -	2,800	- -	4,500	100KHz/1V
SPM70708R2MESG				8.20	uH	±20%	124.0	142.0	- -	2,500	- -	4,000	100KHz/1V
SPM7070100MESG				10.00	uH	±20%	155.0	166.0	- -	2,000	- -	3,000	100KHz/1V
SPM7070R10MEBG	7.00	6.60	1.80	0.10	uH	± 20%	1.9	2.30	- -	25,000	- -	12,000	100KHz/1V
SPM7070R22MEBG				0.22	uH	± 20%	3.0	3.50	- -	22,000	- -	9,200	100KHz/1V
SPM7070R47MEBG				0.47	uH	± 20%	7.3	8.40	- -	11,500	- -	8,000	100KHz/1V
SPM7070R68MEBG				0.68	uH	± 20%	10.0	12.0	- -	9,500	- -	6,000	100KHz/1V
SPM70701R0MEBG				1.00	uH	± 20%	13.6	16.0	- -	8,000	- -	5,000	100KHz/1V
SPM70701R5MEBG				1.50	uH	± 20%	20.0	26.0	- -	8,000	- -	4,500	100KHz/1V
SPM70702R2MEBG				2.20	uH	± 20%	31.0	35.0	- -	7,000	- -	4,000	100KHz/1V
SPM70703R3MEBG				3.30	uH	± 20%	47.0	50.0	- -	4,500	- -	2,300	100KHz/1V
SPM70704R7MEBG				4.70	uH	± 20%	50.0	62.0	- -	4,000	- -	12,000	100KHz/1V
SPM70706R8MEBG				6.80	uH	± 20%	101.0	110.	- -	3,000	- -	9,200	100KHz/1V

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit	%	Max.	Max.	Typ.	Max.	Typ.	Max.	
SPM7070100MEBG	7.00	6.60	1.80	10.00	uH	± 20%	145.0	155.0	- -	2,300	- -	8,000	100KHz/1V
SPM7070220MEBG				22.00	uH	± 20%	325.0	350.0	- -	1,800	- -	6,000	100KHz/1V
SPM7070R22MESI	7.20	6.60	2.40	0.22	uH	±20%	2.5	3.0	- -	21,000	- -	34,000	100KHz/1V
SPM70703R3MESI				3.30	uH	±20%	31.0	39.0	- -	5,500	- -	8,000	100KHz/1V
SPM70706R8MESI				6.80	uH	±20%	57.0	70.0	- -	4,000	- -	6,000	100KHz/1V
SPM7070100MESI				10.00	uH	±20%	92.0	101.0	- -	3,100	- -	4,000	100KHz/1V
SPM7070R22MEBI	7.00	6.60	2.40	0.22	uH	±20%	2.5	3.0	- -	21,000	- -	34,000	100KHz/1V
SPM7070R33MEBI				0.33	uH	±20%	3.4	4.1	- -	18,000	- -	25,500	100KHz/1V
SPM7070R47MEBI				0.47	uH	±20%	4.2	5.1	- -	15,000	- -	22,000	100KHz/1V
SPM7070R56MEBI				0.56	uH	±20%	5.4	6.5	- -	13,000	- -	17,000	100KHz/1V
SPM7070R68MEBI				0.68	uH	±20%	5.8	7.0	- -	12,000	- -	16,000	100KHz/1V
SPM70701R0MEBI				1.00	uH	±20%	11.2	13.5	- -	9,000	- -	15,000	100KHz/1V
SPM70701R5MEBI				1.50	uH	±20%	16.5	20.0	- -	8,200	- -	13,500	100KHz/1V
SPM70702R2MEBI				2.20	uH	±20%	22.0	28.0	- -	7,000	- -	10,000	100KHz/1V
SPM70703R3MEBI				3.30	uH	±20%	31.0	39.0	- -	5,500	- -	8,000	100KHz/1V
SPM70704R7MEBI				4.70	uH	±20%	40.0	50.0	- -	5,000	- -	6,500	100KHz/1V
SPM70706R8MEBI				6.80	uH	±20%	57.0	70.0	- -	4,000	- -	6,000	100KHz/1V
SPM7070100MEBI				10.00	uH	±20%	92.0	101.0	- -	3,100	- -	4,000	100KHz/1V
SPM7070150MEBI				15.00	uH	±20%	140.0	160.0	- -	2,500	- -	3,300	100KHz/1V
SPM7070220MEBI				22.00	uH	±20%	210.0	230.0	- -	2,000	- -	2,500	100KHz/1V
SPM7070R10NECL	7.30	6.60	3.00	0.10	uH	±30%	1.3	1.7	- -	32,500	- -	60,000	100KHz/1V
SPM7070R15MECL				0.15	uH	±20%	1.4	51.9	- -	27,000	- -	45,000	100KHz/1V
SPM7070R22MECL				0.22	uH	±20%	2.1	2.8	- -	23,000	- -	40,000	100KHz/1V
SPM7070R33MECL				0.33	uH	±20%	3.0	3.9	- -	20,000	- -	32,000	100KHz/1V
SPM7070R47MECL				0.47	uH	±20%	3.2	4.2	- -	17,500	- -	26,000	100KHz/1V
SPM7070R56MECL				0.56	uH	±20%	3.8	5.0	- -	16,500	- -	25,500	100KHz/1V
SPM7070R68MECL				0.68	uH	±20%	4.2	5.5	- -	15,500	- -	25,000	100KHz/1V
SPM7070R82MECL				0.82	uH	±20%	6.4	8.0	- -	13,000	- -	24,000	100KHz/1V
SPM70701R0MECL				1.00	uH	±20%	8.5	10.0	- -	11,000	- -	22,000	100KHz/1V
SPM70701R5MECL				1.50	uH	±20%	12.0	15.0	- -	9,000	- -	18,000	100KHz/1V
SPM70702R2MECL				2.20	uH	±20%	16.0	20.0	- -	8,000	- -	14,000	100KHz/1V
SPM70703R3MECL				3.30	uH	±20%	22.0	30.0	- -	6,000	- -	13,500	100KHz/1V
SPM70704R7MECL				4.70	uH	±20%	31.0	40.0	- -	5,500	- -	10,000	100KHz/1V
SPM70705R6MECL				5.60	uH	±20%	40.0	48.0	- -	5,000	- -	9,000	100KHz/1V
SPM70706R8MECL				6.80	uH	±20%	50.0	60.0	- -	4,500	- -	2,500	100KHz/1V
SPM70708R2MECL				8.20	uH	±20%	56.0	68.0	- -	4,000	- -	2,000	100KHz/1V
SPM7070100MECL				10.00	uH	±20%	71.0	85.0	- -	3,500	- -	8,000	100KHz/1V
SPM7070150MECL				15.00	uH	±20%	102.0	123.0	- -	3,000	- -	7,500	100KHz/1V
SPM7070220MECL				22.00	uH	±20%	160.0	190.0	- -	2,000	- -	6,000	100KHz/1V
SPM7070330MECL				33.00	uH	±20%	210.0	240.0	- -	2,000	- -	4,000	100KHz/1V
SPM7070470MECL				47.00	uH	±20%	320.0	363.0	- -	1,750	- -	3,500	100KHz/1V
SPM7070R10NESL	7.20	6.60	3.00	0.10	uH	±30%	1.5	1.7	- -	32,500	- -	60,000	100KHz/1V
SPM7070R15NESL				0.15	uH	±30%	1.5	1.8	- -	24,000	- -	41,000	100KHz/1V
SPM7070R22MESL				0.22	uH	±20%	2.5	2.8	- -	23,000	- -	34,000	100KHz/1V
SPM7070R33MESL				0.33	uH	±20%	3.0	3.5	- -	21,000	- -	25,000	100KHz/1V
SPM7070R47MESL				0.47	uH	±20%	3.5	4.1	- -	18,000	- -	20,000	100KHz/1V
SPM7070R56MESL				0.56	uH	±20%	3.9	4.5	- -	16,500	- -	18,000	100KHz/1V
SPM7070R68MESL				0.68	uH	±20%	4.5	5.0	- -	16,000	- -	17,000	100KHz/1V
SPM7070R82MESL				0.82	uH	±20%	7.0	7.5	- -	14,000	- -	16,000	100KHz/1V
SPM70701R0MESL				1.00	uH	±20%	8.5	9.0	- -	12,000	- -	15,000	100KHz/1V
SPM70701R5MESL				1.50	uH	±20%	10.6	12.1	- -	10,000	- -	13,000	100KHz/1V
SPM70702R2MESL				2.20	uH	±20%	15.5	18.0	- -	8,000	- -	10,000	100KHz/1V
SPM70703R3MESL				3.30	uH	±20%	25.0	28.0	- -	6,500	- -	9,000	100KHz/1V
SPM70704R7MESL				4.70	uH	±20%	32.5	35.0	- -	5,500	- -	6,500	100KHz/1V
SPM70705R6MESL				5.60	uH	±20%	36.0	42.0	- -	5,000	- -	6,250	100KHz/1V
SPM70706R8MESL				6.80	uH	±20%	43.9	50.0	- -	4,500	- -	6,000	100KHz/1V
SPM70708R2MESL				8.20	uH	±20%	54.0	60.0	- -	4,500	- -	6,000	100KHz/1V

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit	%	Max.	Max.	Typ.	Max.	Typ.	Max.	
SPM7070100MESL	7.20	6.60	3.00	10.00	uH	±20%	62.0	68.0	- -	4,000	- -	5,500	100KHz/1V
SPM7070150MESL				15.00	uH	±20%	105.0	125.0	- -	3,000	- -	4,000	100KHz/1V
SPM7070220MESL				22.00	uH	±20%	144.0	160.0	- -	2,500	- -	3,000	100KHz/1V
SPM7070330MESL				33.00	uH	±20%	230.0	255.0	- -	2,000	- -	3,300	100KHz/1V
SPM7070470MESL				47.00	uH	±20%	285.0	320.0	- -	1,750	- -	2,450	100KHz/1V
SPM7070R10MEBL	7.00	6.60	3.00	0.10	uH	±20%	0.9	1.0	40,000	35,000	60,000	48,000	100KHz/1V
SPM7070R15MEBL				0.15	uH	±20%	2.0	2.4	30,000	25,000	41,000	35,000	100KHz/1V
SPM7070R22MEBL				0.22	uH	±20%	2.5	3.0	24,000	21,000	34,000	32,000	100KHz/1V
SPM7070R33MEBL				0.33	uH	±20%	3.0	3.5	21,000	20,000	25,000	22,000	100KHz/1V
SPM7070R47MEBL				0.47	uH	±20%	3.5	4.1	18,000	16,000	20,000	18,000	100KHz/1V
SPM7070R56MEBL				0.56	uH	±20%	3.9	4.5	16,500	15,000	18,000	16,000	100KHz/1V
SPM7070R68MEBL				0.68	uH	±20%	4.7	5.3	16,000	14,500	17,000	15,000	100KHz/1V
SPM7070R82MEBL				0.82	uH	±20%	5.6	6.0	14,000	13,000	16,000	14,000	100KHz/1V
SPM70701R0MEBL				1.00	uH	±20%	6.9	7.4	12,000	11,200	15,000	13,500	100KHz/1V
SPM70701R5MEBL				1.50	uH	±20%	10.6	12.1	12,000	9,500	14,000	12,000	100KHz/1V
SPM70702R2MEBL				2.20	uH	±20%	12.5	15.0	9,500	8,500	12,000	10,500	100KHz/1V
SPM70702R7MEBL				2.70	uH	±20%	17.2	20.0	8,800	8,200	10,000	9,000	100KHz/1V
SPM70703R3MEBL				3.30	uH	±20%	19.6	22.0	8,500	8,000	9,500	8,700	100KHz/1V
SPM70704R7MEBL				4.70	uH	±20%	29.2	33.0	6,000	5,500	9,000	7,500	100KHz/1V
SPM70705R6MEBL				5.60	uH	±20%	36.0	42.0	5,500	5,000	6,500	5,500	100KHz/1V
SPM70706R8MEBL				6.80	uH	±20%	42.0	48.0	5,000	4,500	6,000	5,200	100KHz/1V
SPM70708R2MEBL				8.20	uH	±20%	54.0	60.0	5,000	4,000	5,500	5,000	100KHz/1V
SPM7070100MEBL				10.00	uH	±20%	62.0	68.0	4,500	3,800	5,500	4,900	100KHz/1V
SPM7070150MEBL				15.00	uH	±20%	95.0	113.0	3,000	2,600	4,000	3,500	100KHz/1V
SPM7070220MEBL				22.00	uH	±20%	150.0	170.0	2,500	2,200	3,000	2,500	100KHz/1V
SPM7070330MEBL				33.00	uH	±20%	245.0	270.0	2,000	1,800	2,500	2,100	100KHz/1V
SPM7070470MEBL				47.00	uH	±20%	350.0	385.0	1,500	1,300	2,000	1,800	100KHz/1V
SPM70706R8MESN	7.20	6.60	4.00	6.80	uH	±20%	38.0	46.0	- -	4,700	- -	7,500	100KHz/1V
SPM7070330MESN				33.00	uH	±20%	190.0	228.0	- -	2,500	- -	3,000	100KHz/1V
SPM7070R68MEBN	7.00	6.60	4.00	0.68	uH	±20%	3.2	4.8	- -	17,000	- -	19,000	100KHz/1V
SPM70701R0MEBN				1.00	uH	±20%	5.0	6.6	- -	13,500	- -	16,000	100KHz/1V
SPM70701R5MEBN				1.50	uH	±20%	8.2	10.0	- -	12,400	- -	12,500	100KHz/1V
SPM70702R2MEBN				2.20	uH	±20%	11.5	14.0	- -	10,000	- -	11,000	100KHz/1V
SPM70703R3MEBN				3.30	uH	±20%	16.0	20.0	- -	8,500	- -	9,500	100KHz/1V
SPM70704R7MEBN				4.70	uH	±20%	24.0	30.0	- -	6,500	- -	9,000	100KHz/1V
SPM70706R8MEBN				6.80	uH	±20%	37.5	45.0	- -	5,500	- -	6,500	100KHz/1V
SPM70708R2MEBN				8.20	uH	±20%	46.0	55.0	- -	5,200	- -	6,000	100KHz/1V
SPM7070100MEBN				10.00	uH	±20%	55.0	65.0	- -	4,800	- -	6,000	100KHz/1V
SPM7070150MEBN				15.00	uH	±20%	80.0	95.0	- -	3,700	- -	4,500	100KHz/1V
SPM7070220MEBN				22.00	uH	±20%	105.0	125.0	- -	3,300	- -	4,000	100KHz/1V
SPM7070330MEBN				33.00	uH	±20%	210.0	240.0	- -	2,200	- -	3,000	100KHz/1V
SPM7070470MEBN				47.00	uH	±20%	285.0	320.0	- -	1,800	- -	2,500	100KHz/1V
SPM7070R36MESQ	7.20	6.60	5.00	0.36	uH	±20%	2.7	3.1	- -	21,000	- -	25,000	100KHz/1V
SPM7070R68MESQ				0.68	uH	±20%	3.3	3.6	- -	18,000	- -	17,000	100KHz/1V
SPM70701R0MESQ				1.00	uH	±20%	4.5	5.3	- -	14,500	- -	16,000	100KHz/1V
SPM70701R5MESQ				1.50	uH	±20%	6.0	7.5	- -	11,500	- -	15,000	100KHz/1V
SPM70702R2MESQ				2.20	uH	±20%	9.0	10.5	- -	10,500	- -	13,500	100KHz/1V
SPM70703R3MESQ				3.30	uH	±20%	14.0	15.0	- -	9,000	- -	10,000	100KHz/1V
SPM70704R7MESQ				4.70	uH	±20%	23.0	25.0	- -	6,500	- -	8,000	100KHz/1V
SPM70706R8MESQ				6.80	uH	±20%	31.5	35.5	- -	5,500	- -	6,500	100KHz/1V
SPM7070100MESQ				10.00	uH	±20%	42.0	50.0	- -	4,500	- -	5,000	100KHz/1V
SPM7070150MESQ				15.00	uH	±20%	76.0	85.0	- -	3,800	- -	4,600	100KHz/1V
SPM7070220MESQ				22.00	uH	±20%	105.0	120.0	- -	3,000	- -	3,700	100KHz/1V
SPM7070330MESQ				33.00	uH	±20%	155.0	170.0	- -	2,600	- -	3,100	100KHz/1V
SPM7070470MESQ				47.00	uH	±20%	162.0	178.0	- -	2,300	- -	2,500	100KHz/1V
SPM7070560MESQ				56.00	uH	±20%	235.0	290.0	- -	1,800	- -	2,200	100KHz/1V
SPM7070680MESQ				68.00	uH	±20%	280.0	320.0	- -	1,700	- -	2,400	100KHz/1V

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Max.	Max.	Typ.	Max.	Typ.	Max.	
SPM7070R47MEBQ	7.0	6.60	5.00	0.47	uH	±20%	3.3	3.9	- -	20,000	- -	21,000	100KHz/1V
SPM7070R68MEBQ				0.68	uH	±20%	4.0	4.5	- -	16,500	- -	18,000	100KHz/1V
SPM70701R0MEBQ				1.00	uH	±20%	5.0	6.6	- -	12,000	- -	16,000	100KHz/1V
SPM70701R5MEBQ				1.50	uH	±20%	8.0	10.0	- -	9,500	- -	13,000	100KHz/1V
SPM70702R2MEBQ				2.20	uH	±20%	10.5	12.5	- -	9,000	- -	11,000	100KHz/1V
SPM70703R3MEBQ				3.30	uH	±20%	20.0	22.0	- -	8,500	- -	10,000	100KHz/1V
SPM70704R7MEBQ				4.70	uH	±20%	23.0	29.0	- -	6,000	- -	8,000	100KHz/1V
SPM70706R8MEBQ				6.80	uH	±20%	35.0	41.0	- -	5,800	- -	6,300	100KHz/1V
SPM70708R2MEBQ				8.20	uH	±20%	40.0	48.0	- -	5,500	- -	5,500	100KHz/1V
SPM7070100MEBQ				10.00	uH	±20%	50.0	60.0	- -	4,500	- -	5,300	100KHz/1V
SPM7070150MEBQ				15.00	uH	±20%	80.0	90.0	- -	3,100	- -	4,000	100KHz/1V
SPM7070220MEBQ				22.00	uH	±20%	125.0	140.0	- -	2,600	- -	3,500	100KHz/1V
SPM7070330MEBQ				33.00	uH	±20%	170.0	190.0	- -	2,300	- -	3,000	100KHz/1V
SPM7070470MEBQ				47.00	uH	±20%	210.0	230.0	- -	2,000	- -	2,600	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPM8080

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM80801R0MESN	8.65	8.00	4.00	1.00	uH	±20%	3.9	4.2	20,800	16,000	28,000	21,000	100KHz/1V
SPM8080100MESN				10.00	uH	±20%	36.0	43.0	6,000	5,700	7,700	6,500	100KHz/1V
SPM8080R22MEBN	8.80	8.20	4.00	0.22	uH	±20%	1.6	1.8	36,000	30,000	60,000	55,000	100KHz/1V
SPM8080R33MEBN				0.33	uH	±20%	2.1	2.4	30,000	25,000	45,000	40,000	100KHz/1V
SPM8080R47MEBN				0.47	uH	±20%	2.5	2.8	28,000	25,000	42,000	36,000	100KHz/1V
SPM8080R56MEBN				0.60	uH	±20%	2.9	3.2	24,000	22,000	26,000	23,000	100KHz/1V
SPM8080R68MEBN				0.68	uH	±20%	3.4	3.8	23,000	21,000	24,000	22,000	100KHz/1V
SPM8080R82MEBN				0.82	uH	±20%	4.0	4.4	21,000	19,000	21,000	19,000	100KHz/1V
SPM80801R0MEBN				1.00	uH	±20%	4.2	4.6	19,000	17,000	19,000	17,000	100KHz/1V
SPM80801R5MEBN				1.50	uH	±20%	6.9	7.6	17,000	15,000	17,000	15,000	100KHz/1V
SPM80801R8MEBN				1.80	uH	±20%	9.5	11.0	15,000	12,500	15,000	13,500	100KHz/1V
SPM80802R2MEBN				2.20	uH	±20%	10.0	11.4	14,000	12,000	14,000	12,000	100KHz/1V
SPM80803R3MEBN				3.30	uH	±20%	13.5	15.0	12,000	10,000	12,500	11,000	100KHz/1V
SPM80804R7MEBN				4.70	uH	±20%	24.0	26.5	9,500	8,500	11,500	10,500	100KHz/1V
SPM80805R6MEBN				5.60	uH	±20%	27.0	30.0	9,000	8,000	11,00	10,000	100KHz/1V
SPM80806R8MEBN				6.80	uH	±20%	31.0	36.8	8,000	7,000	9,000	8,000	100KHz/1V
SPM80808R2MEBN				8.20	uH	±20%	38.0	46.0	7,000	6,000	8,700	7,700	100KHz/1V
SPM8080100MEBN				10.00	uH	±20%	49.0	59.0	6,500	5,500	8,000	7,000	100KHz/1V
SPM8080150MEBN				15.00	uH	±20%	60.0	71.0	5,400	4,800	5,500	4,900	100KHz/1V
SPM8080220MEBN				22.00	uH	±20%	100.0	113.0	4,800	4,200	5,000	4,500	100KHz/1V
SPM8080330MEBN				33.00	uH	±20%	135.0	156.0	3,500	3,000	3,500	3,300	100KHz/1V
SPM8080470MEBN				47.00	uH	±20%	200.0	225.0	2,900	2,500	3,100	2,900	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPM1010

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM1010R47METN	11.20	10.00	4.00	0.47	uH	±20%	2.5	3.0	- -	21,000	- -	35,000	100KHz/1V
SPM1010R68METN				0.68	uH	±20%	3.0	3.3	- -	18,000	- -	29,000	100KHz/1V
SPM10101R0METN				1.00	uH	±20%	3.3	3.6	- -	17,000	- -	28,000	100KHz/1V
SPM10101R2METN				1.20	uH	±20%	4.5	5.4	- -	16,000	- -	22,000	100KHz/1V
SPM10101R5METN				1.50	uH	±20%	4.7	5.6	- -	15,000	- -	21,000	100KHz/1V
SPM10102R2MESN	11.20	10.00	4.00	2.20	uH	±20%	6.0	7.0	- -	12,000	- -	18,000	100KHz/1V
SPM10103R3MESN				3.30	uH	±20%	10.8	11.8	- -	10,000	- -	16,000	100KHz/1V
SPM10104R7MESN				4.70	uH	±20%	17.0	20.0	- -	8,500	- -	15,000	100KHz/1V

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM10105R6MESN	11.20	10.00	4.00	5.60	uH	±20%	20.0	23.0	- -	8,000	- -	14,000	100KHz/1V
SPM10106R8MESN				6.80	uH	±20%	22.5	25.0	- -	7,000	- -	12,000	100KHz/1V
SPM10108R2MESN				8.20	uH	±20%	25.0	27.0	- -	6,500	- -	9,000	100KHz/1V
SPM1010100MESN				10.00	uH	±20%	27.0	30.0	- -	6,500	- -	8,500	100KHz/1V
SPM1010150MESN				15.00	uH	±20%	40.0	45.0	- -	6,300	- -	7,000	100KHz/1V
SPM1010220MESN				22.00	uH	±20%	60.0	66.0	- -	5,000	- -	5,500	100KHz/1V
SPM1010330MESN				33.00	uH	±20%	85.0	92.0	- -	4,000	- -	4,500	100KHz/1V
SPM1010470MESN				47.00	uH	±20%	130.0	145.0	- -	3,300	- -	3,500	100KHz/1V
SPM1010680MESN				68.00	uH	±20%	178.0	195.0	- -	2,300	- -	3,000	100KHz/1V
SPM1010R15MEBN	11.5 MAX	10.00	4.00	0.15	uH	±20%	0.6	0.7	- -	45,000	- -	75,000	100KHz/1V
SPM1010R22MEBN				0.22	uH	±20%	0.9	1.0	- -	35,000	- -	60,000	100KHz/1V
SPM1010R30MEBN				0.30	uH	±20%	1.0	1.1	- -	35,000	- -	45,000	100KHz/1V
SPM1010R36MEBN				0.36	uH	±20%	1.1	1.2	- -	30,000	- -	45,000	100KHz/1V
SPM1010R47MEBN				0.47	uH	±20%	1.5	1.7	- -	30,000	- -	40,000	100KHz/1V
SPM1010R56MEBN				0.56	uH	±20%	1.6	1.8	- -	25,000	- -	33,000	100KHz/1V
SPM1010R68MEBN				0.68	uH	±20%	2.1	2.4	- -	23,000	- -	30,000	100KHz/1V
SPM1010R80MEBN				0.80	uH	±20%	2.4	2.7	- -	23,000	- -	29,000	100KHz/1V
SPM10101R0MEBN				1.00	uH	±20%	3.0	3.3	- -	19,000	- -	28,000	100KHz/1V
SPM10101R5MEBN				1.50	uH	±20%	3.8	4.2	- -	16,000	- -	24,000	100KHz/1V
SPM10102R2MEBN				2.20	uH	±20%	6.0	7.0	- -	12,000	- -	16,500	100KHz/1V
SPM10103R3MEBN				3.30	uH	±20%	10.8	11.8	- -	11,000	- -	16,000	100KHz/1V
SPM10104R7MEBN				4.70	uH	±20%	17.0	20.0	- -	9,000	- -	13,000	100KHz/1V
SPM10106R8MEBN				6.80	uH	±20%	22.5	25.0	- -	8,500	- -	12,000	100KHz/1V
SPM10108R2MEBN				8.20	uH	±20%	25.0	27.0	- -	8,000	- -	9,000	100KHz/1V
SPM1010100MEBN				10.00	uH	±20%	27.0	30.0	- -	7,800	- -	8,500	100KHz/1V
SPM1010150MEBN				15.00	uH	±20%	40.0	45.0	- -	6,500	- -	7,000	100KHz/1V
SPM1010220MEBN				22.00	uH	±20%	60.0	66.0	- -	5,000	- -	5,500	100KHz/1V
SPM1010330MEBN				33.00	uH	±20%	85.0	92.0	- -	4,400	- -	4,800	100KHz/1V
SPM1010470MEBN				47.00	uH	±20%	130.0	145.0	- -	3,300	- -	3,500	100KHz/1V
SPM1010680MEBN				68.00	uH	±20%	178.0	195.0	- -	2,500	- -	3,000	100KHz/1V
SPM1010820MEBN				82.00	uH	±20%	260.0	285.0	- -	2,300	- -	2,800	100KHz/1V
SPM1010101MEBN				100.00	uH	±20%	315.0	340.0	- -	2,000	- -	2,300	100KHz/1V
SPM1010100MESW	11.20	10.00	5.50	10.00	uH	±20%	21.0	24.2	8,000	7,200	12,500	10,500	100KHz/1V
SPM1010150MESW				15.00	uH	±20%	30.0	33.5	6,700	6,400	9,700	8,200	100KHz/1V
SPM1010220MESW				22.00	uH	±20%	47.0	53.0	6,000	5,400	8,800	7,200	100KHz/1V
SPM1010330MESW				33.00	uH	±20%	67.0	77.1	4,500	4,200	6,200	5,200	100KHz/1V
SPM1010470MESW				47.00	uH	±20%	98.0	114.0	4,100	3,600	4,700	4,200	100KHz/1V
SPM1010101MESW				100.00	uH	±20%	200.0	230.0	2,800	2,500	3,600	3,000	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPM1313 / SIM1313

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM13131R0MESM	13.90	12.80	3.50	1.00	uH	±20%	3.4	4.2	18,000	17,000	34,000	28,000	100KHz/1V
SPM13132R2MESM				2.20	uH	±20%	6.6	7.5	11,500	11,000	23,500	20,000	100KHz/1V
SPM13132R2MESQ	13.90	12.80	5.00	2.20	uH	±20%	4.0	5.0	- -	15,000	- -	24,000	100KHz/1V
SPM13133R3MESQ				3.30	uH	±20%	5.9	7.0	- -	14,000	- -	22,000	100KHz/1V
SPM13134R7MESQ				4.70	uH	±20%	8.5	10.5	- -	13,000	- -	19,000	100KHz/1V
SPM13136R8MESQ				6.80	uH	±20%	13.0	15.5	- -	12,000	- -	14,000	100KHz/1V
SPM1313100MESQ				10.00	uH	±20%	19.0	22.0	- -	9,000	- -	12,000	100KHz/1V
SPM1313150MESQ				15.00	uH	±20%	26.0	31.0	- -	5,900	- -	8,400	100KHz/1V
SPM1313220MESQ				22.00	uH	±20%	51.0	58.0	- -	4,500	- -	6,500	100KHz/1V
SPM1313R68METQ	13.90	12.80	5.00	0.68	uH	±20%	2.5	3.0	- -	23,000	- -	38,000	100KHz/1V
SPM13131R0METQ				1.00	uH	±20%	3.0	3.6	- -	22,000	- -	28,000	100KHz/1V
SPM13131R5METQ				1.50	uH	±20%	3.5	4.2	- -	18,500	- -	23,000	100KHz/1V
SPM1313R22MEBQ	13.45	12.60	5.00	0.22	uH	±20%	0.6	0.7	- -	50,000	- -	75,000	100KHz/1V
SPM1313R36MEBQ				0.36	uH	±20%	0.7	0.9	- -	42,000	- -	50,000	100KHz/1V
SPM1313R50MEBQ				0.50	uH	±20%	1.0	0.2	- -	38,000	- -	48,000	100KHz/1V
SPM1313R68MEBQ				0.68	uH	±20%	1.4	0.6	- -	33,000	- -	46,000	100KHz/1V
SPM1313R82MEBQ				0.82	uH	±20%	1.5	0.7	- -	30,000	- -	39,000	100KHz/1V
SPM13131R0MEBQ				1.00	uH	±20%	2.0	2.2	- -	26,000	- -	35,000	100KHz/1V

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM13131R5MEBQ	13.45	12.60	5.00	1.50	uH	±20%	3.9	3.2	- -	23,000	- -	33,000	100KHz/1V
SPM13132R2MEBQ				2.20	uH	±20%	4.5	5.0	- -	15,000	- -	24,000	100KHz/1V
SPM13133R3MEBQ				3.30	uH	±20%	6.3	7.0	- -	14,000	- -	22,000	100KHz/1V
SPM13134R7MEBQ				4.70	uH	±20%	8.2	9.0	- -	13,000	- -	20,000	100KHz/1V
SPM13136R8MEBQ				6.80	uH	±20%	16.0	18.0	- -	12,000	- -	16,000	100KHz/1V
SPM13138R2MEBQ				8.20	uH	±20%	18.0	20.0	- -	9,500	- -	13,000	100KHz/1V
SPM1313100MEBQ				10.00	uH	±20%	20.0	22.0	- -	9,000	- -	12,000	100KHz/1V
SPM1313150MEBQ				15.00	uH	±20%	26.0	30.0	- -	8,000	- -	10,000	100KHz/1V
SPM1313220MEBQ				22.00	uH	±20%	52.0	58.0	- -	4,500	- -	6,500	100KHz/1V
SPM1313330MEBQ				33.00	uH	±20%	75.0	84.0	- -	3,500	- -	6,000	100KHz/1V
SPM1313470MEBQ				47.00	uH	±20%	115.0	130.0	- -	3,000	- -	5,000	100KHz/1V
SPM1313680MEBQ				68.00	uH	±20%	130.0	145.0	- -	2,800	- -	4,500	100KHz/1V
SPM13132R2MESR	13.90	12.80	6.00	2.20	uH	±20%	3.8	4.1	- -	21,000	- -	25,000	100KHz/1V
SPM13133R3MESR				3.30	uH	±20%	5.3	6.4	- -	17,000	- -	22,000	100KHz/1V
SPM13134R7MESR				4.70	uH	±20%	7.2	9.0	- -	16,000	- -	18,000	100KHz/1V
SPM13136R8MESR				6.80	uH	±20%	9.5	12.0	- -	12,000	- -	15,000	100KHz/1V
SPM13138R2MESR				8.20	uH	±20%	13.6	16.0	- -	11,000	- -	13,500	100KHz/1V
SPM1313100MESR				10.00	uH	±20%	18.0	20.7	- -	10,000	- -	12,500	100KHz/1V
SPM1313120MESR				12.00	uH	±20%	20.0	23.0	- -	7,000	- -	10,000	100KHz/1V
SPM1313150MESR				15.00	uH	±20%	25.0	29.0	- -	6,000	- -	9,000	100KHz/1V
SPM1313220MESR				22.00	uH	±20%	34.0	39.5	- -	5,000	- -	7,500	100KHz/1V
SPM1313270MESR				27.00	uH	±20%	49.0	56.0	- -	4,500	- -	6,500	100KHz/1V
SPM1313330MESR				33.00	uH	±20%	65.0	75.0	- -	4,000	- -	6,000	100KHz/1V
SPM1313470MESR				47.00	uH	±20%	80.0	90.0	- -	3,500	- -	5,500	100KHz/1V
SPM1313680MESR				68.00	uH	±20%	120.0	140.0	- -	3,000	- -	4,500	100KHz/1V
SPM1313101MESR				100.00	uH	±20%	180.0	200.0	- -	2,500	- -	3,500	100KHz/1V
SPM1313121MESR				120.00	uH	±20%	210.0	235.0	- -	2,300	- -	3,200	100KHz/1V
SPM1313151MESR				150.00	uH	±20%	250.0	300.0	- -	2,200	- -	2,700	100KHz/1V
SPM13134R7MEBR	13.45	12.60	6.00	4.70	uH	±20%	7.2	9.0	- -	15,000	- -	24,000	100KHz/1V
SPM13135R6MEBR				5.60	uH	±20%	9.0	11.0	- -	13,000	- -	22,500	100KHz/1V
SPM13136R8MEBR				6.80	uH	±20%	11.0	13.5	- -	12,000	- -	19,000	100KHz/1V
SPM13138R2MEBR				8.20	uH	±20%	13.0	16.0	- -	11,000	- -	13,500	100KHz/1V
SPM1313100MEBR				10.00	uH	±20%	18.0	20.7	- -	10,000	- -	12,500	100KHz/1V
SPM1313120MEBR				12.00	uH	±20%	20.0	23.0	- -	9,000	- -	10,000	100KHz/1V
SPM1313150MEBR				15.00	uH	±20%	25.0	29.0	- -	8,500	- -	9,000	100KHz/1V
SPM1313180MEBR				18.00	uH	±20%	29.0	35.0	- -	7,500	- -	8,000	100KHz/1V
SPM1313220MEBR				22.00	uH	±20%	34.0	39.5	- -	7,000	- -	7,500	100KHz/1V
SPM1313270MEBR				27.00	uH	±20%	49.0	56.0	- -	6,000	- -	6,500	100KHz/1V
SPM1313330MEBR				33.00	uH	±20%	65.0	75.0	- -	5,500	- -	6,000	100KHz/1V
SPM1313470MEBR				47.00	uH	±20%	80.0	90.0	- -	5,000	- -	5,500	100KHz/1V
SPM1313680MEBR				68.00	uH	±20%	120.0	140.0	- -	4,000	- -	4,500	100KHz/1V
SPM1313101MEBR				100.00	uH	±20%	180.0	200.0	- -	3,000	- -	3,500	100KHz/1V
SPM1313121MEBR				120.00	uH	±20%	200.0	235.0	- -	2,000	- -	3,200	100KHz/1V
SPM1313151MEBR				150.00	uH	±20%	315.0	350.0	- -	1,500	- -	2,700	100KHz/1V
SIM1313220MESN	13.90	12.80	4.00	22.00	uH	±20%	42.5	52.5	6,100	6,000	9,500	7,500	100KHz/1V
SIM1313330MESN				33.00	uH	±20%	63.0	73.0	5,100	5,000	7,300	6,000	100KHz/1V
SIM1313101MESN				100.00	uH	±20%	215.0	230.0	2,600	2,400	3,800	3,100	100KHz/1V
SIM1313220MESR	13.90	12.80	6.00	22.00	uH	±20%	29.0	34.0	7,700	7,200	11,000	9,500	100KHz/1V
SIM1313330MESR				33.00	uH	±20%	43.0	51.0	6,500	6,000	9,000	7,500	100KHz/1V
SIM1313470MESR				47.00	uH	±20%	60.0	70.0	5,300	4,800	7,800	6,500	100KHz/1V
SIM1313101MESR				100.00	uH	±20%	130.0	155.0	3,700	3,500	5,300	4,500	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPM1717

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SPM17171R5MEBU	17.15	17.15MAX	7.00	1.50	uH	±20%	1.6	52.1	33,000	40,000	100KHz/1V
SPM17172R2MEBU				2.20	uH	±20%	2.0	2.5	29,000	34,000	100KHz/1V
SPM17173R3MEBU				3.30	uH	±20%	3.0	4.0	24,000	30,000	100KHz/1V
SPM17174R7MEBU				4.70	uH	±20%	3.8	4.8	21,000	24,000	100KHz/1V
SPM17176R8MEBU				6.80	uH	±20%	6.0	7.5	17,000	22,000	100KHz/1V
SPM17178R2MEBU				8.20	uH	±20%	7.0	8.7	13,000	20,000	100KHz/1V

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SPM1717100MEBU	17.15	17.15MAX	7.00	10.00	uH	±20%	8.0	9.9	12,000	19,000	100KHz/1V
SPM1717150MEBU				15.00	uH	±20%	13.0	517.0	11,000	14,500	100KHz/1V
SPM1717220MEBU				22.00	uH	±20%	18.0	523.0	8,500	11,500	100KHz/1V
SPM1717330MEBU				33.00	uH	±20%	28.0	37.0	8,000	10,000	100KHz/1V
SPM1717470MEBU				47.00	uH	±20%	37.0	47.0	6,000	7,500	100KHz/1V
SPM1717680MEBU				68.00	uH	±20%	70.0	85.0	5,200	6,500	100KHz/1V
SPM1717101MEBU				100.00	uH	±20%	110.0	130.0	3,700	5,000	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPM2222

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM22224R7MESX	22.50	22.00	13.00	4.70	uH	±20%	1.9	2.2	14,000	40,000	60,000	45,000	100KHz/1V
SPM22226R8MESX				6.80	uH	±20%	2.7	3.2	29,000	28,000	58,000	48,000	100KHz/1V
SPM2222100MESX				10.00	uH	±20%	4.0	4.7	28,000	27,000	47,000	39,000	100KHz/1V
SPM2222220MESX				20.00	uH	±20%	9.5	11.5	20,000	19,800	25,5000	21,500	100KHz/1V
SPM22221R0MEBX	23.50	22.00	13.00	1.00	uH	±20%	0.8	1.0	70,000	65,000	60,000	54,000	100KHz/1V
SPM22221R5MEBX				1.50	uH	±20%	0.9	1.2	62,000	57,000	52,000	48,000	100KHz/1V
SPM22222R2MEBX				2.20	uH	±20%	1.1	1.3	58,000	52,000	48,000	43,000	100KHz/1V
SPM22223R3MEBX				3.30	uH	±20%	1.5	1.8	49,000	47,000	41,000	37,000	100KHz/1V
SPM22224R7MEBX				4.70	uH	±20%	1.9	2.2	47,000	44,000	38,000	34,000	100KHz/1V
SPM22226R8MEBX				6.80	uH	±20%	2.6	3.1	40,000	36,000	36,000	32,000	100KHz/1V
SPM2222100MEBX				10.00	uH	±20%	3.4	4.2	33,000	30,000	28,000	20,000	100KHz/1V
SPM2222150MEBX				15.00	uH	±20%	5.1	6.1	26,000	23,000	23,000	18,000	100KHz/1V
SPM2222220MEBX				22.00	uH	±20%	9.0	11.0	22,000	18,000	15,000	14,000	100KHz/1V
SPM2222330MEBX				33.00	uH	±20%	12.5	15.4	19,000	16,000	12,000	10,500	100KHz/1V
SPM2222470MEBX				47.00	uH	±20%	17.5	20.8	17,000	14,000	12,000	10,000	100KHz/1V
SPM2222680MEBX				68.00	uH	±20%	24.5	29.5	14,000	12,000	12,000	9,000	100KHz/1V
SPM2222820MEBX				82.00	uH	±20%	28.5	34.2	12,000	10,000	9,000	7,700	100KHz/1V
SPM2222101MEBX				100.00	uH	±20%	31.0	40.0	11,000	9,500	9,000	7,500	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※SPM2222_MEBX：Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 40% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

Automotive Type Inductor for Molding Inductor

(SAM / AIM / ACM Series)

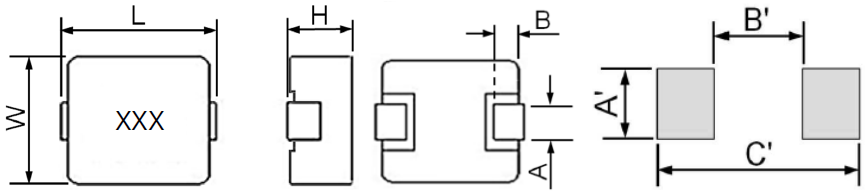
■ Feature

1. Magnetic shielded construction
2. Frequency range up to 3.0MHz
3. Higher rated current, capable handling at high current spikes

■ Application

1. VGA card applications
2. DC-DC Converter applications
3. Low profile, high current power supplies
4. Automotive Application

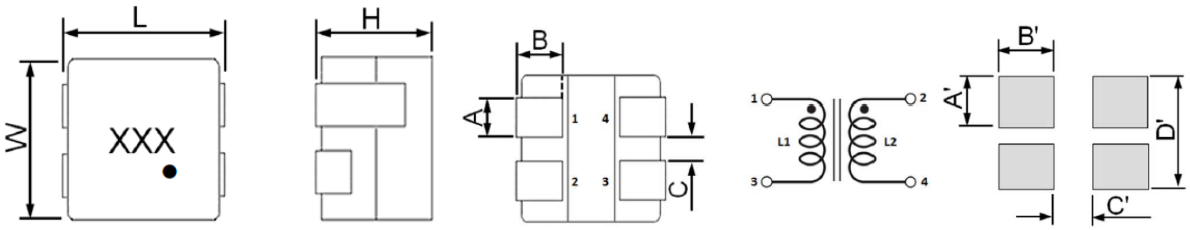
■ Standard External Dimensions



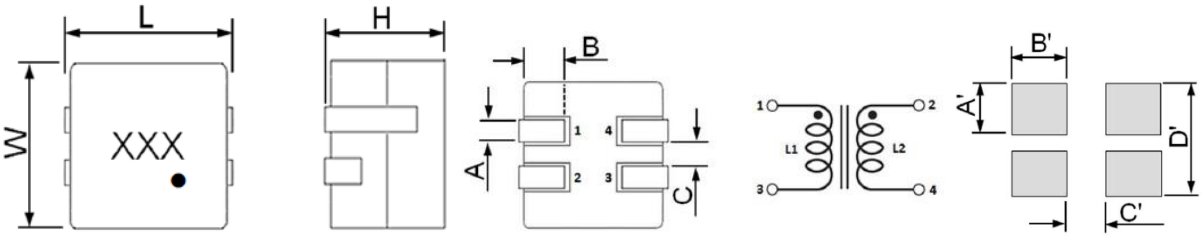
Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B (mm)	C' (mm)	Reel	Amount(pcs)
SAM4040□□□□E_C	4.7±0.3	4.2±0.2	1.0±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13”	3,500
SAM4040□□□□E_H	4.7±0.3	4.2±0.2	1.8±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13”	2,000
SAM5050□□□□E_E	5.7±0.3	5.2±0.2	1.3±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	3,000
SAM5050□□□□E_G	5.7±0.3	5.2±0.2	1.6±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	3,000
SAM5050□□□□E_H	5.7±0.3	5.2±0.2	1.8±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	3,000
SAM5050□□□□E_L	5.7±0.3	5.2±0.2	2.8±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	2,000
SAM5050□□□□E_N	5.7±0.3	5.2±0.2	3.8±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	2,000
SAM7070□□□□E_E	7.0±0.3	6.6±0.2	1.3±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	2,000
SAM7070□□□□E_G	7.2±0.3	6.6±0.2	1.6±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	2,000
SAM7070□□□□E_L	7.2±0.3	6.6±0.2	2.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	1,500
SAM7070□□□□E_N	7.2±0.3	6.6±0.2	3.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	1,000
SAM7070□□□□E_Q	7.2±0.3	6.6±0.2	4.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	1,000
SAM8080□□□□E_W	8.7±0.35	8.2±0.3	5.3±0.2	5.1±0.3	1.6±0.3	5.4	4.8	9.6	13”	500
SAM1010□□□□E_N	11.2±0.3	10.0±0.2	3.8±0.2	3.0±0.5	2.0±0.5	4.0	5.5	13.5	13”	800
SAM1010□□□□E_W	11.2±0.3	10.0±0.2	5.3±0.2	3.0±0.5	2.0±0.5	4.0	5.5	13.5	13”	500
SAM1313□□□□E_Q*	13.9±0.3	12.8±0.2	4.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500
SAM1313□□□□E_R	13.9±0.3	12.8±0.2	5.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500
AIM1313□□□□ESN	13.9±0.3	12.8±0.2	3.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500
AIM1313□□□□ESR	13.9±0.3	12.8±0.2	5.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500

*New Series

For some special parts, please see the “Part Number & Characteristic” for detail specification



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	C (mm)	Recommended Land Patterns				Package	
							A' (mm)	B' (mm)	C' (mm)	D' (mm)	Reel	Amount (pcs)
ACM7070□□□□ESR*	7.7±0.35	7.2±0.3	6.0max	2.3±0.3	1.75±0.35	1.2±0.3	2.8	3.0	3.3	6.4	13”	800
ACM1010□□□□ESY*	10.8±0.35	10.0±0.3	8.0max	3.1±0.3	2.4±0.5	1.6±0.2	3.8	4.0	5.0	8.8	13”	400



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	C (mm)	Recommended Land Patterns				Package	
							A' (mm)	B' (mm)	C' (mm)	D' (mm)	Reel	Amount (pcs)
ACM1313□□□□ESS	12.0±0.3	12.0±0.3	6.5max	1.5±0.4	3.25±0.3	1.65±0.4	2.2	4.0	4.5	5.9	13”	500
ACM1313□□□□ESY	12.0±0.3	12.0±0.3	8.0max	1.5±0.4	3.25±0.3	1.65±0.4	2.2	4.0	4.5	5.9	13”	300
ACM1313□□□□ESV*	12.0±0.3	12.0±0.3	8.0Max	1.5±0.4	3.25±0.3	1.65±0.4	2.20	4.50	4.50	5.9	13”	250
ACM1313□□□□ESO	12.0±0.3	12.0±0.3	10.0max	1.5±0.4	3.25±0.3	1.65±0.4	2.2	4.0	4.5	5.9	13”	200

*New Series

For some special parts, please see the “Part Number & Characteristic” for detail specification

■ Part Number & Characteristic (General Molding for Automotive)(SAM Series)

● SAM4040

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SAM4040R33MESC	4.70	4.20	1.20	0.33	uH	±20%	14.0	16.5	6,500	9,000	100KHz/1V
SAM4040R47MESC				0.47	uH	±20%	19.0	21.0	6,000	6,800	100KHz/1V
SAM4040R68MESC				0.68	uH	±20%	32.0	36.0	4,500	6,000	100KHz/1V
SAM40401R0MESC				1.00	uH	±20%	43.0	47.0	4,200	5,200	100KHz/1V
SAM40401R5MESC				1.50	uH	±20%	68.0	75.0	3,250	4,000	100KHz/1V
SAM40402R2MESC				2.20	uH	±20%	79.4	83.5	2,750	3,500	100KHz/1V
SAM40403R3MESC				3.30	uH	±20%	120.0	138.0	2,300	3,000	100KHz/1V
SAM40404R7MESC				4.70	uH	±20%	175.0	195.0	1,800	2,800	100KHz/1V
SAM4040R33MELC	4.70	4.20	1.20	0.33	uH	±20%	14.0	16.5	6,500	9,000	100KHz/1V
SAM4040R47MELC				0.47	uH	±20%	19.0	21.0	6,000	6,800	100KHz/1V
SAM4040R68MELC				0.68	uH	±20%	32.0	36.0	4,500	6,000	100KHz/1V
SAM40401R0MELC				1.00	uH	±20%	43.0	47.0	4,200	5,200	100KHz/1V
SAM40401R5MELC				1.50	uH	±20%	68.0	75.0	3,250	4,000	100KHz/1V
SAM40402R2MELC				2.20	uH	±20%	79.4	83.5	2,750	3,500	100KHz/1V
SAM40403R3MELC				3.30	uH	±20%	120.0	195.0	2,300	3,000	100KHz/1V
SAM40404R7MELC				4.70	uH	±20%	175.0	195.0	1,800	2,800	100KHz/1V
SAM4040R22MESH	4.70	4.20	2.00	0.22	uH	±20%	6.0	6.6	9,000	12,500	100KHz/1V
SAM4040R47MESH				0.47	uH	±20%	12.5	14.0	7,000	9,500	100KHz/1V
SAM4040R68MESH				0.68	uH	±20%	19.4	21.0	5,200	8,000	100KHz/1V
SAM40401R0MESH				1.00	uH	±20%	24.0	27.0	4,800	7,000	100KHz/1V
SAM40401R5MESH				1.50	uH	±20%	36.0	44.0	4,000	6,300	100KHz/1V
SAM40402R2MESH				2.20	uH	±20%	52.0	58.0	3,600	5,900	100KHz/1V
SAM40403R3MESH				3.30	uH	±20%	74.0	87.0	3,000	4,000	100KHz/1V
SAM40404R7MESH				4.70	uH	±20%	88.0	100.0	2,800	3,200	100KHz/1V
SAM40406R8MESH				6.80	uH	±20%	162.0	178.0	2,000	2,100	100KHz/1V
SAM4040100MESH				10.00	uH	±20%	256.0	282.0	1,600	1,800	100KHz/1V
SAM4040R22MELH	4.70	4.20	2.00	0.22	uH	±20%	6.0	6.6	9,000	12,500	100KHz/1V
SAM4040R47MELH				0.47	uH	±20%	12.5	14.0	7,000	9,500	100KHz/1V
SAM4040R68MELH				0.68	uH	±20%	19.4	21.0	5,200	8,000	100KHz/1V
SAM40401R0MELH				1.00	uH	±20%	24.0	27.0	4,800	7,000	100KHz/1V
SAM40401R5MELH				1.50	uH	±20%	36.0	44.0	4,000	6,300	100KHz/1V
SAM40402R2MELH				2.20	uH	±20%	52.0	58.0	3,600	5,900	100KHz/1V
SAM40403R3MELH				3.30	uH	±20%	74.0	87.0	3,000	4,000	100KHz/1V
SAM40404R7MELH				4.70	uH	±20%	88.0	100.0	2,800	3,200	100KHz/1V
SAM40406R8MELH				6.80	uH	±20%	162.0	178.0	2,000	2,100	100KHz/1V
SAM4040100MELH				10.00	uH	±20%	256.0	282.0	1,600	1,800	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SAM5050

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SAM50500R22NESE	5.70	5.20	1.50	0.22	uH	±30%	5.8	7.0	10,000	17,000	100KHz/1V
SAM50501R0MESE				1.00	uH	±20%	20.0	23.0	6,500	9,000	100KHz/1V
SAM50501R5MESE				1.50	uH	±20%	46.0	53.0	4,200	7,000	100KHz/1V
SAM50502R2MESE				2.20	uH	±20%	58.0	64.0	3,300	6,000	100KHz/1V
SAM50503R3MESE				3.30	uH	±20%	70.0	80.0	3,200	4,500	100KHz/1V
SAM50504R7MESE				4.70	uH	±20%	103.0	115.0	3,000	4,000	100KHz/1V
SAM50506R8MESE				6.80	uH	±20%	167.0	180.0	2,500	3,200	100KHz/1V
SAM5050100MESE				10.00	uH	±20%	220.0	246.0	2,000	3,000	100KHz/1V
SAM5050R22NELE	5.70	5.20	1.50	0.22	uH	±30%	5.8	7.0	10,000	17,000	100KHz/1V
SAM50501R0MELE				1.00	uH	±20%	20.0	23.0	6,500	9,000	100KHz/1V
SAM50501R5MELE				1.50	uH	±20%	46.0	53.0	4,200	7,000	100KHz/1V
SAM50502R2MELE				2.20	uH	±20%	58.0	64.0	3,300	6,000	100KHz/1V
SAM50503R3MELE				3.30	uH	±20%	70.0	80.0	3,200	4,500	100KHz/1V
SAM50504R7MELE				4.70	uH	±20%	103.0	115.0	3,000	4,000	100KHz/1V
SAM50506R8MELE				6.80	uH	±20%	167.0	180.0	2,500	3,200	100KHz/1V
SAM5050100MELE				10.00	uH	±20%	220.0	246.0	2,000	3,000	100KHz/1V
SAM50501R0MESG	5.70	5.20	1.80	1.00	uH	±20%	15.0	17.0	8,000	9,500	100KHz/1V
SAM50504R7MESG				4.70	uH	±20%	78.0	85.0	3,500	4,000	100KHz/1V
SAM50506R8MESG				6.80	uH	±20%	107.0	120.0	2,800	3,400	100KHz/1V
SAM5050100MESG				10.00	uH	±20%	140.0	155.0	2,500	3,000	100KHz/1V

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SAM50501R0MELG	5.70	5.20	1.80	1.00	uH	±20%	15.0	17.0	8,000	9,500	100KHz/1V
SAM50504R7MELG				4.70	uH	±20%	78.0	85.0	3,500	4,000	100KHz/1V
SAM50506R8MELG				6.80	uH	±20%	107.0	120.0	2,800	3,400	100KHz/1V
SAM5050100MELG				10.00	uH	±20%	140.0	155.0	2,500	3,000	100KHz/1V
SAM5050R22MESH	5.70	5.20	2.00	0.22	uH	±20%	4.1	4.5	12,000	20,000	100KHz/1V
SAM5050R24MESH				0.24	uH	±20%	5.0	5.8	11,700	18,500	100KHz/1V
SAM5050R33MESH				0.33	uH	±20%	5.5	5.9	11,500	16,000	100KHz/1V
SAM5050R47MESH				0.47	uH	±20%	8.0	10.0	10,500	15,500	100KHz/1V
SAM5050R56MESH				0.56	uH	±20%	8.2	10.0	10,000	13,000	100KHz/1V
SAM5050R68MESH				0.68	uH	±20%	10.5	13.0	9,500	12,000	100KHz/1V
SAM50501R0MESH				1.00	uH	±20%	15.0	17.0	8,000	9,500	100KHz/1V
SAM50501R2MESH				1.20	uH	±20%	19.5	22.5	7,000	9,000	100KHz/1V
SAM50501R5MESH				1.50	uH	±20%	24.2	27.5	6,000	8,500	100KHz/1V
SAM50502R2MESH				2.20	uH	±20%	30.0	35.0	5,000	6,500	100KHz/1V
SAM50503R3MESH				3.30	uH	±20%	49.0	55.0	4,500	5,500	100KHz/1V
SAM50504R7MESH				4.70	uH	±20%	75.3	81.3	3,500	4,500	100KHz/1V
SAM50505R6MESH				5.60	uH	±20%	85.2	92.0	3,000	4,000	100KHz/1V
SAM50506R8MESH				6.80	uH	±20%	107.0	120.0	2,800	3,600	100KHz/1V
SAM5050100MESH				10.00	uH	±20%	140.0	155.0	2,400	3,400	100KHz/1V
SAM5050R22MELH	5.70	5.20	2.00	0.22	uH	±20%	4.1	4.5	12,000	20,000	100KHz/1V
SAM5050R24MELH				0.24	uH	±20%	5.0	5.8	11,700	18,500	100KHz/1V
SAM5050R33MELH				0.33	uH	±20%	5.5	5.9	11,500	16,000	100KHz/1V
SAM5050R47MELH				0.47	uH	±20%	8.0	10.0	10,500	15,500	100KHz/1V
SAM5050R56MELH				0.56	uH	±20%	8.2	10.0	10,000	13,000	100KHz/1V
SAM5050R68MELH				0.68	uH	±20%	10.5	13.0	9,500	12,000	100KHz/1V
SAM50501R0MELH				1.00	uH	±20%	15.0	17.0	8,000	9,500	100KHz/1V
SAM50501R2MELH				1.20	uH	±20%	19.5	22.5	7,000	9,000	100KHz/1V
SAM50501R5MELH				1.50	uH	±20%	24.2	27.5	6,000	8,500	100KHz/1V
SAM50502R2MELH				2.20	uH	±20%	30.0	35.0	5,000	6,500	100KHz/1V
SAM50503R3MELH				3.30	uH	±20%	49.0	55.0	4,500	5,500	100KHz/1V
SAM50504R7MELH				4.70	uH	±20%	75.3	81.3	3,500	4,500	100KHz/1V
SAM50505R6MELH				5.60	uH	±20%	85.2	92.0	3,000	4,000	100KHz/1V
SAM50506R8MELH				6.80	uH	±20%	107.0	120.0	2,800	3,600	100KHz/1V
SAM5050100MELH				10.00	uH	±20%	140.0	155.0	2,400	3,400	100KHz/1V
SAM50501R0MESL	5.70	5.20	3.00	1.00	uH	±20%	13.0	14.0	7,000	11,000	100KHz/1V
SAM50501R5MESL				1.50	uH	±20%	18.0	25.0	6,200	9,500	100KHz/1V
SAM50502R2MESL				2.20	uH	±20%	29.0	35.0	5,500	9,000	100KHz/1V
SAM50503R3MESL				3.30	uH	±20%	32.0	38.0	5,000	7,000	100KHz/1V
SAM50503R6MESL				3.60	uH	±20%	34.0	40.0	4,700	7,000	100KHz/1V
SAM50504R7MESL				4.70	uH	±20%	50.0	60.0	4,400	6,000	100KHz/1V
SAM50506R8MESL				6.80	uH	±20%	75.0	88.5	3,400	3,800	100KHz/1V
SAM5050100MESL				10.00	uH	±20%	95.0	114.0	2,500	3,500	100KHz/1V
SAM5050220MESL				22.00	uH	±20%	230.0	275.0	2,300	2,100	100KHz/1V
SAM50501R0MELL	5.70	5.20	3.00	1.00	uH	±20%	13.0	14.0	7,000	11,000	100KHz/1V
SAM50501R5MELL				1.50	uH	±20%	18.0	25.0	6,200	9,500	100KHz/1V
SAM50502R2MELL				2.20	uH	±20%	29.0	35.0	5,500	9,000	100KHz/1V
SAM50503R3MELL				3.30	uH	±20%	32.0	38.0	5,000	7,000	100KHz/1V
SAM50503R6MELL				3.60	uH	±20%	34.0	40.0	4,700	7,000	100KHz/1V
SAM50504R7MELL				4.70	uH	±20%	50.0	60.0	4,400	6,000	100KHz/1V
SAM50506R8MELL				6.80	uH	±20%	75.0	88.5	3,400	3,800	100KHz/1V
SAM5050100MELL				10.00	uH	±20%	95.0	114.0	2,500	3,500	100KHz/1V
SAM5050220MELL				22.00	uH	±20%	230.0	275.0	2,300	2,100	100KHz/1V
SAM50504R7MESN	5.70	5.20	4.00	4.70	uH	±20%	31.5	38.0	5,000	6,300	100KHz/1V
SAM5050150MESN				15.00	uH	±20%	115.0	130.0	2,700	2,400	100KHz/1V
SAM5050220MESN				22.00	uH	±20%	170.0	190.0	2,400	2,100	100KHz/1V
SAM5050330MESN				33.00	uH	±20%	250.0	290.0	1,700	2,000	100KHz/1V
SAM50504R7MELN	5.70	5.20	4.00	4.70	uH	±20%	31.5	38.0	5,000	6,300	100KHz/1V
SAM5050150MELN				15.00	uH	±20%	115.0	130.0	2,700	2,400	100KHz/1V
SAM5050220MELN				22.00	uH	±20%	170.0	190.0	2,400	2,100	100KHz/1V
SAM5050330METN				33.00	uH	±20%	250.0	290.0	1,700	2,000	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

- SAM7070

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit	%	Typ.	Max.	Max.	Max.	
SAM7070R22MESE	7.00	6.60	1.50	0.22	uH	±20%	5.1	5.8	11,000	22,000	100KHz/1V
SAM7070R33MESE				0.33	uH	±20%	6.8	7.8	10,000	19,500	100KHz/1V
SAM7070R47MESE				0.47	uH	±20%	8.5	9.8	9,500	16,000	100KHz/1V
SAM7070R56MESE				0.56	uH	±20%	9.5	11.0	9,000	14,000	100KHz/1V
SAM7070R68MESE				0.68	uH	±20%	12.5	14.5	8,000	12,000	100KHz/1V
SAM7070R82MESE				0.82	uH	±20%	15.0	17.0	7,000	10,000	100KHz/1V
SAM70701R0MESE				1.00	uH	±20%	18.5	21.0	5,500	9,000	100KHz/1V
SAM70701R2MESE				1.20	uH	±20%	21.0	30.0	5,400	8,500	100KHz/1V
SAM70701R5MESE				1.50	uH	±20%	37.0	42.5	5,000	7,000	100KHz/1V
SAM70702R2MESE				2.20	uH	±20%	41.0	50.0	4,900	6,100	100KHz/1V
SAM70703R3MESE				3.30	uH	±20%	54.0	63.0	3,300	5,500	100KHz/1V
SAM70704R7MESE				4.70	uH	±20%	76.0	85.0	3,000	5,000	100KHz/1V
SAM70706R8MESE				6.80	uH	±20%	125.0	135.0	2,500	4,000	100KHz/1V
SAM7070100MESE				10.00	uH	±20%	165.0	175.0	2,000	3,000	100KHz/1V
SAM7070R22MELE	7.00	6.60	1.50	0.22	uH	±20%	5.1	5.8	11,000	22,000	100KHz/1V
SAM7070R33MELE				0.33	uH	±20%	6.8	7.8	10,000	19,500	100KHz/1V
SAM7070R47MELE				0.47	uH	±20%	8.5	9.8	9,500	16,000	100KHz/1V
SAM7070R56MELE				0.56	uH	±20%	9.5	11.0	9,000	14,000	100KHz/1V
SAM7070R68MELE				0.68	uH	±20%	12.5	14.5	8,000	12,000	100KHz/1V
SAM7070R82MELE				0.82	uH	±20%	15.0	17.0	7,000	10,000	100KHz/1V
SAM70701R0MELE				1.00	uH	±20%	18.5	21.0	5,500	9,000	100KHz/1V
SAM70701R2MELE				1.20	uH	±20%	21.0	30.0	5,400	8,500	100KHz/1V
SAM70701R5MELE				1.50	uH	±20%	37.0	42.5	5,000	7,000	100KHz/1V
SAM70702R2MELE				2.20	uH	±20%	41.0	54.0	4,900	6,100	100KHz/1V
SAM70703R3MELE				3.30	uH	±20%	54.0	63.0	3,300	5,500	100KHz/1V
SAM70704R7MELE				4.70	uH	±20%	76.0	85.0	3,000	5,000	100KHz/1V
SAM70706R8MELE				6.80	uH	±20%	125.0	135.0	2,500	4,000	100KHz/1V
SAM7070100MELE				10.00	uH	±20%	165.0	175.0	2,000	3,000	100KHz/1V
SAM7070R10MESG	7.20	6.60	1.80	0.10	uH	±20%	1.9	2.3	18,000	30,000	100KHz/1V
SAM7070R22MESG				0.22	uH	±20%	4.5	5.2	14,000	29,000	100KHz/1V
SAM7070R33MESG				0.33	uH	±20%	5.2	6.8	12,000	22,000	100KHz/1V
SAM7070R47MESG				0.47	uH	±20%	7.3	8.4	11,000	17,000	100KHz/1V
SAM7070R68MESG				0.68	uH	±20%	10.8	12.7	9,000	16,000	100KHz/1V
SAM7070R82MESG				0.82	uH	±20%	13.4	15.9	8,000	14,000	100KHz/1V
SAM70701R0MESG				1.00	uH	±20%	14.5	17.0	7,000	12,000	100KHz/1V
SAM70701R5MESG				1.50	uH	±20%	20.0	26.0	6,000	10,000	100KHz/1V
SAM70702R2MESG				2.20	uH	±20%	31.0	35.0	5,000	8,000	100KHz/1V
SAM70703R3MESG				3.30	uH	±20%	56.0	60.0	3,500	7,000	100KHz/1V
SAM70704R7MESG				4.70	uH	±20%	68.0	75.0	3,200	5,500	100KHz/1V
SAM70706R8MESG				6.80	uH	±20%	101.0	110.0	2,800	4,500	100KHz/1V
SAM70708R2MESG				8.20	uH	±20%	124.0	142.0	2,500	4,000	100KHz/1V
SAM7070100MESG				10.00	uH	±20%	155.0	166.0	2,000	3,000	100KHz/1V
SAM7070R10MELG	7.20	6.60	1.80	0.10	uH	±20%	1.9	2.3	18,000	30,000	100KHz/1V
SAM7070R22MELG				0.22	uH	±20%	4.5	5.2	14,000	29,000	100KHz/1V
SAM7070R33MELG				0.33	uH	±20%	5.2	6.8	12,000	22,000	100KHz/1V
SAM7070R47MELG				0.47	uH	±20%	7.3	8.4	11,000	17,000	100KHz/1V
SAM7070R68MELG				0.68	uH	±20%	10.8	12.7	9,000	16,000	100KHz/1V
SAM7070R82MELG				0.82	uH	±20%	13.4	15.9	8,000	14,000	100KHz/1V
SAM70701R0MELG				1.00	uH	±20%	14.5	17.0	7,000	12,000	100KHz/1V
SAM70701R5MELG				1.50	uH	±20%	20.0	26.0	6,000	10,000	100KHz/1V
SAM70702R2MELG				2.20	uH	±20%	31.0	35.0	5,000	8,000	100KHz/1V
SAM70703R3MELG				3.30	uH	±20%	56.0	60.0	3,500	7,000	100KHz/1V
SAM70704R7MELG				4.70	uH	±20%	68.0	75.0	3,200	5,500	100KHz/1V
SAM70706R8MELG				6.80	uH	±20%	101.0	110.0	2,800	4,500	100KHz/1V
SAM70708R2MELG				8.20	uH	±20%	124.0	142.0	2,500	4,000	100KHz/1V
SAM7070100MELG				10.00	uH	±20%	155.0	166.0	2,000	3,000	100KHz/1V
SAM7070R10NESL	7.20	6.60	3.00	0.10	uH	±20%	1.5	1.7	32,500	60,000	100KHz/1V
SAM7070R15NESL				0.15	uH	±20%	1.5	1.8	24,000	41,000	100KHz/1V
SAM7070R22MESL				0.22	uH	±20%	2.5	2.8	23,000	34,000	100KHz/1V
SAM7070R33MESL				0.33	uH	±20%	3.0	3.5	21,000	25,000	100KHz/1V
SAM7070R47MESL				0.47	uH	±20%	3.5	4.1	18,000	20,000	100KHz/1V
SAM7070R56MESL				0.56	uH	±20%	3.9	4.5	16,500	18,000	100KHz/1V
SAM7070R68MESL				0.68	uH	±20%	4.5	5.0	16,000	17,000	100KHz/1V
SAM7070R82MESL				0.82	uH	±20%	7.0	7.5	14,000	16,000	100KHz/1V
SAM70701R0MESL				1.00	uH	±20%	8.5	9.0	12,000	15,000	100KHz/1V
SAM70701R5MESL				1.50	uH	±20%	10.6	12.1	10,000	13,000	100KHz/1V
SAM70702R2MESL				2.20	uH	±20%	15.5	18.0	8,000	10,000	100KHz/1V

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SAM70703R3MESL	7.20	6.60	3.00	3.30	uH	±20%	25.0	28.0	6,500	9,000	100KHz/1V
SAM70704R7MESL				4.70	uH	±20%	32.5	35.0	5,500	6,500	100KHz/1V
SAM70705R6MESL				5.60	uH	±20%	36.0	42.0	5,000	6,250	100KHz/1V
SAM70706R8MESL				6.80	uH	±20%	43.9	50.0	4,500	6,000	100KHz/1V
SAM70708R2MESL				8.20	uH	±20%	54.0	60.0	4,500	6,000	100KHz/1V
SAM7070100MESL				10.00	uH	±20%	62.0	68.0	4,000	5,500	100KHz/1V
SAM7070150MESL				15.00	uH	±20%	105.0	125.0	3,000	4,000	100KHz/1V
SAM7070220MESL				22.00	uH	±20%	144.0	160.0	2,500	3,000	100KHz/1V
SAM7070470MESL				47.00	uH	±20%	285.0	320.0	1,750,	2,450	100KHz/1V
SAM7070R10NELL	7.20	6.60	3.00	0.10	uH	±20%	1.5	1.7	32,500	60,000	100KHz/1V
SAM7070R15NELL				0.15	uH	±20%	1.5	1.8	24,000	41,000	100KHz/1V
SAM7070R22MELL				0.22	uH	±20%	2.5	2.8	23,000	34,000	100KHz/1V
SAM7070R33MELL				0.33	uH	±20%	3.0	3.5	21,000	25,000	100KHz/1V
SAM7070R47MELL				0.47	uH	±20%	3.5	4.1	18,000	20,000	100KHz/1V
SAM7070R56MELL				0.56	uH	±20%	3.9	4.5	16,500	18,000	100KHz/1V
SAM7070R68MELL				0.68	uH	±20%	4.5	5.0	16,000	17,000	100KHz/1V
SAM7070R82MELL				0.82	uH	±20%	7.0	7.5	14,000	16,000	100KHz/1V
SAM70701R0MELL				1.00	uH	±20%	8.5	9.0	12,000	15,000	100KHz/1V
SAM70701R5MELL				1.50	uH	±20%	10.6	12.1	10,000	13,000	100KHz/1V
SAM70702R2MELL				2.20	uH	±20%	15.5	18.0	8,000	10,000	100KHz/1V
SAM70703R3MELL				3.30	uH	±20%	25.0	28.0	6,500	9,000	100KHz/1V
SAM70704R7MELL				4.70	uH	±20%	32.5	35.0	5,500	6,500	100KHz/1V
SAM70705R6MELL				5.60	uH	±20%	36.0	42.0	5,000	6,250	100KHz/1V
SAM70706R8MELL				6.80	uH	±20%	43.9	50.0	4,500	6,000	100KHz/1V
SAM70708R2MELL				8.20	uH	±20%	54.0	60.0	4,500	6,000	100KHz/1V
SAM7070100MELL				10.00	uH	±20%	62.0	68.0	4,000	5,500	100KHz/1V
SAM7070150MELL				15.00	uH	±20%	105.0	125.0	3,000	4,000	100KHz/1V
SAM7070220MELL				22.00	uH	±20%	144.0	160.0	2,500	3,000	100KHz/1V
SAM7070330MELL				33.00	uH	±20%	230.0	255.0	2,000	3,300	100KHz/1V
SAM7070470MELL				47.00	uH	±20%	285.0	320.0	1,750	2,450	100KHz/1V
SAM70706R8MESN	7.20	6.60	4.00	6.80	uH	±20%	38.0	46.0	4,700	7,500	100KHz/1V
SAM7070330MESN				33.00	uH	±20%	190.0	228.0	2,500	3,000	100KHz/1V
SAM70706R8MELN	7.20	6.60	4.00	6.80	uH	±20%	38.0	46.0	4,700	7,500	100KHz/1V
SAM7070330MELN				33.00	uH	±20%	190.0	228.0	2,500	3,000	100KHz/1V
SAM7070R36MESQ	7.20	6.60	5.00	0.36	uH	±20%	2.7	3.1	21,000	25,000	100KHz/1V
SAM7070R68MESQ				0.68	uH	±20%	3.3	3.6	18,000	17,000	100KHz/1V
SAM70701R0MESQ				1.00	uH	±20%	4.5	5.3	14,500	16,000	100KHz/1V
SAM70701R5MESQ				1.50	uH	±20%	6.0	7.5	11,500	15,000	100KHz/1V
SAM70702R2MESQ				2.20	uH	±20%	9.0	10.5	10,500	13,500	100KHz/1V
SAM70703R3MESQ				3.30	uH	±20%	14.0	15.0	9,000	10,000	100KHz/1V
SAM70704R7MESQ				4.70	uH	±20%	23.0	25.0	6,500	8,000	100KHz/1V
SAM70706R8MESQ				6.80	uH	±20%	31.5	35.5	5,500	6,500	100KHz/1V
SAM7070100MESQ				10.00	uH	±20%	42.0	50.0	4,500	5,000	100KHz/1V
SAM7070150MESQ				15.00	uH	±20%	76.0	85.0	3,800	4,600	100KHz/1V
SAM7070220MESQ				22.00	uH	±20%	105.0	120.0	3,000	3,700	100KHz/1V
SAM7070330MESQ				33.00	uH	±20%	130.0	145.0	2,800	3,200	100KHz/1V
SAM7070470MESQ				47.00	uH	±20%	162.0	178.0	2,300	2,500	100KHz/1V
SAM7070560MESQ				56.00	uH	±20%	235.0	290.0	1,800	2,200	100KHz/1V
SAM7070680MESQ				68.00	uH	±20%	280.0	320.0	1,700	2,400	100KHz/1V
SAM7070R36MELQ	7.20	6.60	5.00	0.36	uH	±20%	2.7	3.1	21,000	25,000	100KHz/1V
SAM7070R68MELQ				0.68	uH	±20%	3.3	3.6	18,000	17,000	100KHz/1V
SAM70701R0MELQ				1.00	uH	±20%	4.5	5.3	14,500	16,000	100KHz/1V
SAM70701R5MELQ				1.50	uH	±20%	6.0	7.5	11,500	15,000	100KHz/1V
SAM70702R2MELQ				2.20	uH	±20%	9.0	10.5	10,500	13,500	100KHz/1V
SAM70703R3MELQ				3.30	uH	±20%	14.0	15.0	9,000	10,000	100KHz/1V
SAM70704R7MELQ				4.70	uH	±20%	23.0	25.0	6,500	8,000	100KHz/1V
SAM70706R8MELQ				6.80	uH	±20%	31.5	35.5	5,500	6,500	100KHz/1V
SAM7070100MELQ				10.00	uH	±20%	42.0	50.0	4,500	5,000	100KHz/1V
SAM7070150MELQ				15.00	uH	±20%	76.0	85.0	3,800	4,600	100KHz/1V
SAM7070220MELQ				22.00	uH	±20%	105.0	120.0	3,000	3,700	100KHz/1V
SAM7070330MELQ				33.00	uH	±20%	130.0	145.0	2,800	3,200	100KHz/1V
SAM7070470MELQ				47.00	uH	±20%	162.0	178.0	2,300	2,500	100KHz/1V
SAM7070560MELQ				56.00	uH	±20%	235.0	290.0	1,800	2,200	100KHz/1V
SAM7070680MELQ				68.00	uH	±20%	280.0	320.0	1,700	2,400	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※SAM7070_ELL、SAM7070_ELN、SAM7070_ELQ：Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 40% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

● SAM8080

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SAM80802R2MESW	8.70	8.20	5.50	2.20	uH	±20%	6.0	7.2	14,000	13,500	16,700	14,300	100KHz/1V
SAM80804R7MESW				4.70	uH	±20%	12.3	15.0	8,900	8,000	13,500	11,500	100KHz/1V
SAM8080100MESW				10.0	uH	±20%	32.0	36.0	6,100	5,900	8,800	7,300	100KHz/1V
SAM8080150MESW				15.0	uH	±20%	44.0	52.8	4,900	4,400	6,300	5,100	100KHz/1V
SAM8080220MESW				22.00	uH	±20%	56.0	67.0	4,300	4,200	6,200	5,200	100KHz/1V
SAM8080101MESW				100.00	uH	±20%	285.0	315.0	2,000	1,900	2,900	2,400	100KHz/1V
SAM80802R2MELW	8.70	8.20	5.50	2.20	uH	±20%	6.0	7.2	14,000	13,500	16,700	14,300	100KHz/1V
SAM80804R7MELW				4.70	uH	±20%	12.3	15.0	8,900	8,000	13,500	11,500	100KHz/1V
SAM8080100MELW				10.00	uH	±20%	32.0	36.0	6,100	5,900	8,800	7,300	100KHz/1V
SAM8080150MELW				15.00	uH	±20%	44.0	52.8	4,900	4,400	6,300	5,100	100KHz/1V
SAM8080220MELW				22.00	uH	±20%	56.0	67.0	4,300	4,200	6,200	5,200	100KHz/1V
SAM8080330MELW				33.00	uH	±20%	110.0	115.0	3,600	3,400	5,300	4,300	100KHz/1V
SAM8080101MELW				100.00	uH	±20%	285.0	315.0	2,000	1,900	2,910	2,400	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※SAM8080_ELW：Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 40% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SAM1010

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Maz.	Typ	Max.	
SAM1010R47METN	11.20	10.00	4.00	0.47	uH	±20%	2.5	3.0	- -	21,000	- -	35,000	100KHz/1V
SAM1010R68METN				0.68	uH	±20%	3.0	3.3	- -	18,000	- -	29,000	100KHz/1V
SAM10101R0METN				1.00	uH	±20%	3.3	3.6	- -	17,000	- -	28,000	100KHz/1V
SAM10101R2METN				1.20	uH	±20%	4.5	5.4	- -	16,000	- -	22,000	100KHz/1V
SAM10101R5METN				1.50	uH	±20%	4.7	5.6	- -	15,000	- -	21,000	100KHz/1V
SAM10102R2MESN	11.20	10.00	4.00	2.20	uH	±20%	6.0	7.0	- -	12,000	- -	18,000	100KHz/1V
SAM10103R3MESN				3.30	uH	±20%	10.8	11.8	- -	10,000	- -	16,000	100KHz/1V
SAM10104R7MESN				4.70	uH	±20%	17.0	20.0	- -	8,500	- -	15,000	100KHz/1V
SAM10105R6MESN				5.60	uH	±20%	20.0	23.0	- -	8,000	- -	14,000	100KHz/1V
SAM10106R8MESN				6.80	uH	±20%	22.5	25.0	- -	7,000	- -	12,000	100KHz/1V
SAM10108R2MESN				8.20	uH	±20%	25.0	27.0	- -	6,500	- -	9,000	100KHz/1V
SAM1010100MESN				10.00	uH	±20%	27.0	30.0	- -	6,500	- -	8,500	100KHz/1V
SAM1010150MESN				15.00	uH	±20%	40.0	45.0	- -	6,300	- -	7,000	100KHz/1V
SAM1010220MESN				22.00	uH	±20%	60.0	66.0	- -	5,000	- -	5,500	100KHz/1V
SAM1010330MESN				33.00	uH	±20%	85.0	92.0	- -	4,000	- -	4,500	100KHz/1V
SAM1010470MESN				47.00	uH	±20%	130.0	145.0	- -	3,300	- -	3,500	100KHz/1V
SAM1010680MESN				68.00	uH	±20%	178.0	195.0	- -	2,300	- -	3,000	100KHz/1V
SAM1010101MESN				100.00	uH	±20%	240.0	288.0	- -	2,200	- -	2,500	100KHz/1V
SAM1010R47MELN	11.20	10.00	4.00	0.47	uH	±20%	2.5	3.0	- -	21,000	- -	35,000	100KHz/1V
SAM1010R68MELN				0.68	uH	±20%	3.0	3.3	- -	18,000	- -	29,000	100KHz/1V
SAM10101R0MELN				1.00	uH	±20%	3.3	3.6	- -	17,000	- -	28,000	100KHz/1V
SAM10101R2MELN				1.20	uH	±20%	4.5	5.4	- -	16,000	- -	22,000	100KHz/1V
SAM10101R5MELN				1.50	uH	±20%	4.7	5.6	- -	15,000	- -	21,000	100KHz/1V
SAM10102R2MELN				2.20	uH	±20%	6.0	7.0	- -	12,000	- -	18,000	100KHz/1V
SAM10103R3MELN				3.30	uH	±20%	10.8	11.8	- -	10,000	- -	16,000	100KHz/1V
SAM10104R7MELN				4.70	uH	±20%	17.0	20.0	- -	8,500	- -	15,000	100KHz/1V
SAM10105R6MELN				5.60	uH	±20%	20.0	23.0	- -	8,000	- -	14,000	100KHz/1V
SAM10106R8MELN				6.80	uH	±20%	22.5	25.0	- -	7,000	- -	12,000	100KHz/1V
SAM10108R2MELN				8.20	uH	±20%	25.0	27.0	- -	6,500	- -	9,000	100KHz/1V
SAM1010100MELN				10.00	uH	±20%	27.0	30.0	- -	6,500	- -	8,500	100KHz/1V
SAM1010150MELN				15.00	uH	±20%	40.0	45.0	- -	6,300	- -	7,000	100KHz/1V
SAM1010220MELN				22.00	uH	±20%	60.0	66.0	- -	5,000	- -	5,500	100KHz/1V
SAM1010330MELN				33.00	uH	±20%	85.0	92.0	- -	4,000	- -	4,500	100KHz/1V
SAM1010470MELN				47.00	uH	±20%	130.0	145.0	- -	3,300	- -	3,500	100KHz/1V
SAM1010680MELN				68.00	uH	±20%	178.0	195.0	- -	2,300	- -	3,000	100KHz/1V
SAM1010101MELN				100.00	uH	±20%	240.0	288.0	- -	2,200	- -	2,500	100KHz/1V
SAM10106R8MESW	11.20	10.00	5.50	6.80	uH	±20%	13.0	17.0	9,600	9,500	16,500	13,500	100KHz/1V
SAM1010100MESW				10.00	uH	±20%	21.0	24.2	8,700	7,800	13,000	11,000	100KHz/1V
SAM1010150MESW				15.00	uH	±20%	30.0	33.5	6,700	6,400	9,700	8,200	100KHz/1V
SAM1010220MESW				22.00	uH	±20%	47.0	53.0	6,000	5,400	8,800	7,200	100KHz/1V
SAM1010330MESW				33.00	uH	±20%	67.0	77.1	4,500	4,200	6,200	5,200	100KHz/1V
SAM1010470MESW				47.00	uH	±20%	98.0	114.0	4,100	3,600	4,900	4,200	100KHz/1V

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Maz.	Typ	Max.	
SAM1010680MESW	11.20	10.00	5.50	68.00	uH	±20%	132.0	152.0	3,300	3,000	4,.800	4,000	100KHz/1V
SAM1010101MESW				100.00	uH	±20%	200.0	230.0	2,800	2,500	3,600	3,000	100KHz/1V
SAM10106R8MELW	11.20	10.00	5.50	6.80	uH	±20%	13.0	17.0	9,600	9,500	16,500	13,500	100KHz/1V
SAM1010100MELW				10.00	uH	±20%	21.0	24.2	8,700	7,800	13,000	11,000	100KHz/1V
SAM1010150MELW				15.00	uH	±20%	30.0	33.5	6,700	6,400	9,700	8,200	100KHz/1V
SAM1010220MELW				22.00	uH	±20%	47.0	53.0	6,000	5,400	8,800	7,200	100KHz/1V
SAM1010330MELW				33.00	uH	±20%	67.0	77.1	4,500	4,200	6,200	5,200	100KHz/1V
SAM1010470MELW				47.00	uH	±20%	98.0	114.0	4,100	3,600	4,900	4,200	100KHz/1V
SAM1010101MELW				100.00	uH	±20%	200.0	230.0	2,800	2,500	3,610	3,000	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※SAM1010_ELN、SAM1010_ELW：Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 40% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SAM1313

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SAM1313R68METQ	13.90	12.8	5.00	0.68	uH	±20%	2.5	3.0	23,000	38,000	100KHz/1V
SAM13131R0METQ				1.00	uH	±20%	3.0	3.6	22,000	28,000	100KHz/1V
SAM13131R5METQ				1.50	uH	±20%	3.5	4.2	18,500	23,000	100KHz/1V
SAM13132R2MESQ	13.90	12.80	5.00	2.20	uH	±20%	4.0	5.0	15,000	24,000	100KHz/1V
SAM13133R3MESQ				3.30	uH	±20%	5.9	7.0	14,000	22,000	100KHz/1V
SAM13134R7MESQ				4.70	uH	±20%	8.5	10.5	13,000	19,000	100KHz/1V
SAM13136R8MESQ				6.80	uH	±20%	13.0	15.5	12,000	14,000	100KHz/1V
SAM1313100MESQ				10.00	uH	±20%	19.0	22.0	9,000	12,000	100KHz/1V
SAM1313150MESQ				15.00	uH	±20%	26.0	31.0	5,900	8,400	100KHz/1V
SAM1313220MESQ				22.00	uH	±20%	51.0	58.0	4,500	6,500	100KHz/1V
SAM13132R2MESR	13.90	12.80	6.00	2.20	uH	±20%	3.8	4.1	21,000	25,000	100KHz/1V
SAM13133R3MESR				3.30	uH	±20%	5.3	6.4	17,000	22,000	100KHz/1V
SAM13134R7MESR				4.70	uH	±20%	7.2	9.0	16,000	18,000	100KHz/1V
SAM13136R8MESR				6.80	uH	±20%	9.5	12.0	12,000	15,000	100KHz/1V
SAM13138R2MESR				8.20	uH	±20%	13.6	16.0	11,000	13,500	100KHz/1V
SAM1313100MESR				10.00	uH	±20%	18.0	20.7	10,000	12,500	100KHz/1V
SAM1313120MESR				12.00	uH	±20%	20.0	23.0	7,000	10,000	100KHz/1V
SAM1313150MESR				15.00	uH	±20%	25.0	29.0	6,000	9,000	100KHz/1V
SAM1313220MESR				22.00	uH	±20%	34.0	39.5	5,000	7,500	100KHz/1V
SAM1313270MESR				27.00	uH	±20%	49.0	56.0	4,500	6,500	100KHz/1V
SAM1313330MESR				33.00	uH	±20%	65.0	75.0	4,000	6,000	100KHz/1V
SAM1313470MESR				47.00	uH	±20%	80.0	90.0	3,500	5,500	100KHz/1V
SAM1313680MESR				68.00	uH	±20%	120.0	140.0	3,000	4,500	100KHz/1V
SAM1313101MESR				100.00	uH	±20%	180.0	200.0	2,500	3,500	100KHz/1V
SAM1313121MESR				120.00	uH	±20%	185.0	220.0	2,900	3,700	100KHz/1V
SAM1313151MESR				150.00	uH	±20%	250.0	300.0	2,200	2,700	100KHz/1V
SAM13133R3MELR	13.90	12.80	6.00	3.30	uH	±20%	5.3	6.4	17,000	22,000	100KHz/1V
SAM13134R7MELR				4.70	uH	±20%	7.2	9.0	16,000	18,000	100KHz/1V
SAM13136R8MELR				6.80	uH	±20%	9.5	12.0	12,000	15,000	100KHz/1V
SAM13138R2MELR				8.20	uH	±20%	13.6	16.0	11,000	13,500	100KHz/1V
SAM1313100MELR				10.00	uH	±20%	18.0	20.7	10,000	12,500	100KHz/1V
SAM1313120MELR				12.00	uH	±20%	20.0	23.0	7,000	10,000	100KHz/1V
SAM1313150MELR				15.00	uH	±20%	25.0	29.0	6,000	9,000	100KHz/1V
SAM1313220MELR				22.00	uH	±20%	34.0	39.5	5,000	7,500	100KHz/1V
SAM1313270MELR				27.00	uH	±20%	49.0	56.0	4,500	6,500	100KHz/1V
SAM1313330MELR				33.00	uH	±20%	65.0	75.0	4,000	6,000	100KHz/1V
SAM1313470MELR				47.00	uH	±20%	80.0	90.0	3,500	5,500	100KHz/1V
SAM1313680MELR				68.00	uH	±20%	120.0	140.0	3,000	4,500	100KHz/1V
SAM1313101MELR				100.00	uH	±20%	180.0	200.0	2,500	3,500	100KHz/1V
SAM1313121MELR				120.00	uH	±20%	185.0	220.0	2,900	3,700	100KHz/1V
SAM1313151MELR				150.00	uH	±20%	250.0	300.0	2,200	2,700	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※SAM1313_ELR：Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 40% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

■ Part Number & Characteristic (High Efficiency Molding for Automotive) (AIM Series)

● AIM1313

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
AIM1313220MESN	13.90	12.80	4.00	22.00	uH	±20%	42.5	52.5	6,100	6,000	9,500	7,500	100KHz/1V
AIM1313330MESN				33.00	uH	±20%	63.0	73.0	5,100	5,000	7,300	6,000	100KHz/1V
AIM1313101MESN				100.00	uH	±20%	215.0	230.0	2,600	2,400	3,800	3,100	100KHz/1V
AIM1313220MESR	13.90	12.80	6.00	22.00	uH	± 20%	29.0	34.0	7,700	7,200	11,000	9,500	100KHz/1V
AIM1313330MESR				33.00	uH	± 20%	43.0	51.0	6,500	6,000	9,000	7,500	100KHz/1V
AIM1313470MESR				47.00	uH	± 20%	60.0	70.0	5,300	4,800	7,800	6,500	100KHz/1V
AIM1313101MESR				100.00	uH	± 20%	130.0	155.0	3,700	3,500	5,300	4,500	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

■ Part Number & Characteristic (Double Molding for Automotive) (ACM Series)

● ACM7070

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
ACM70704R7MESR	7.70	7.20	6.00	4.70	uH	±20%	29.0	35.0	4,900	4,800	11,500	9,500	100KHz/1V
ACM7070100MESR				10.0	uH	±20%	60.0	72.0	3,800	3,500	7,000	5,800	100KHz/1V
ACM7070150MESR				15.0	uH	±20%	75.0	90.0	3,700	3,400	6,000	5,100	100KHz/1V
ACM7070220MESR				22.0	uH	±20%	112.0	134.0	2,600	2,400	4,800	4,000	100KHz/1V
ACM7070330MESR				33.0	uH	±20%	180.0	210.0	2,400	2,300	4,600	3,600	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● ACM1010

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
ACM1010100MESY	10.80	10.0	8.00	10.0	uH	±20%	23.0	27.0	6,800	6,600	11,500	9,400	100KHz/1V
ACM1010150MESY				15.0	uH	±20%	34.0	40.8	6,000	5,800	9,200	7,800	100KHz/1V
ACM1010220MESY				22.0	uH	±20%	54.0	63.0	4,700	4,600	9,000	7,500	100KHz/1V
ACM1010470MESY				47.0	uH	±20%	108.0	129.6	3,300	3,100	5,800	4,900	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● ACM1313

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
ACM1313100MESS	12.00	12.00	6.50	10.0	uH	±20%	25.0	30.0	7,200	7,000	11,000	9,000	100KHz/1V
ACM1313220MESS				22.0	uH	±20%	55.0	64.0	4,750	4,500	8,200	6,700	100KHz/1V
ACM1313330MESS				33.0	uH	±20%	85.0	95.0	3,900	3,700	5,800	4,700	100KHz/1V
ACM1313100MESY	12.00	12.00	8.00	10.0	uH	±20%	20.0	24.0	7,700	7,500	12,500	10,500	100KHz/1V
ACM1313150MESY				15.0	uH	±20%	30.0	35.0	6,900	6,600	10,200	8,400	100KHz/1V
ACM1313220MESV	12.00	12.00	9.00	22.00	uH	±20%	37.5	45.0	6,400	6,200	9,200	7,700	100KHz/1V
ACM1313330MESV				33.00	uH	±20%	56.0	67.0	5,100	4,900	7,600	6,400	100KHz/1V
ACM1313220MESO	12.00	12.00	10.00	22.0	uH	±20%	33.0	40.0	6,600	6,500	8,800	7,400	100KHz/1V
ACM1313330MESO				33.0	uH	±20%	50.0	58.0	5,500	5,300	7,300	6,200	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

Coating Inductors (SPS / SPN Series)

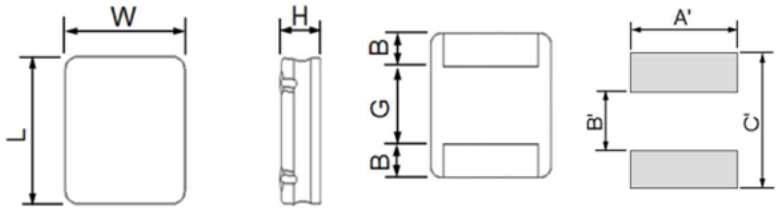
■ Feature

1. Small and low profile inductor
2. It corresponds to high current
3. Simple and original magnetic shield structure

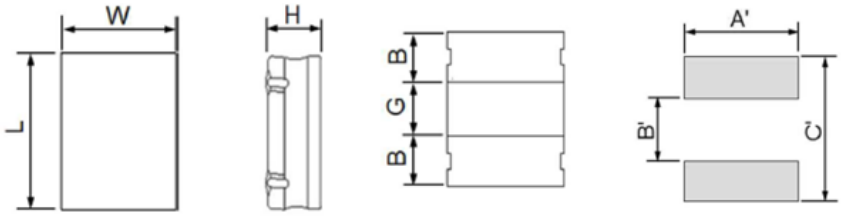
■ Application

For small DC/DC converter (HDD, DVC, DSC, LCD display, notebook, tablet, Bluetooth earphone, cellular phones)

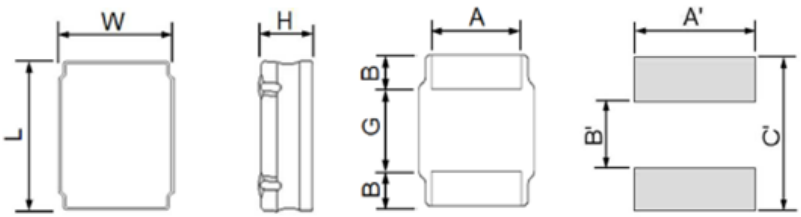
■ External Dimension



Series	L (mm)	W (mm)	H (mm)	B (mm)	G (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPS2016□□□□PCA	2.0±0.3	1.6±0.3	1.0+0.1/-0.2	0.6±0.2	0.8±0.3	1.6	0.6	2.4	7"	3,000
SPS2520□□□□PCA	2.5±0.3	2.0±0.3	1.0+0.1/-0.2	0.85±0.2	0.95±0.3	2.2	0.6	2.6	7"	3,000



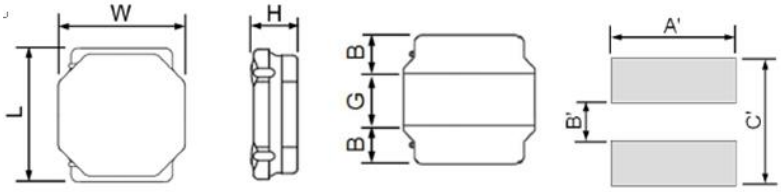
Series	L (mm)	W (mm)	H (mm)	B (mm)	G (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPN2016□□□□PSA	2.0±0.3	1.6±0.3	1.0+0.1/-0.2	0.77±0.2	0.6±0.3	1.6	0.3	2.4	7"	2,000
SPN2520□□□□PSA	2.5±0.3	2.0±0.3	1.0+0.1/-0.2	0.9±0.3	0.85±0.35	2.1	0.6	2.8	7"	2,000
SPN2520□□□□PSC	2.5±0.3	2.0±0.3	1.2+0.1/-0.2	0.85±0.2	0.85±0.35	2.1	0.6	2.8	7"	2,000



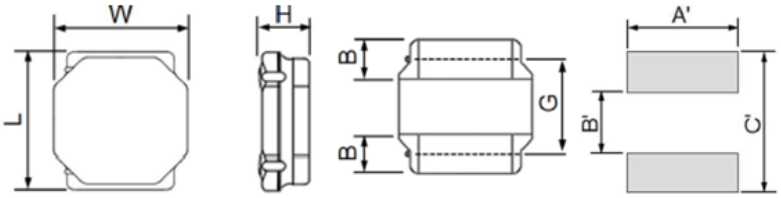
Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	G (mm)	Recommended Land Patterns			Package	
							A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPS2520□□□□PCC	2.5±0.3	2.0±0.3	1.2+0.1/-0.2	1.5±0.2	0.85±0.25	0.8±0.3	2.1	0.8	2.6	7"	3,000

*New Series

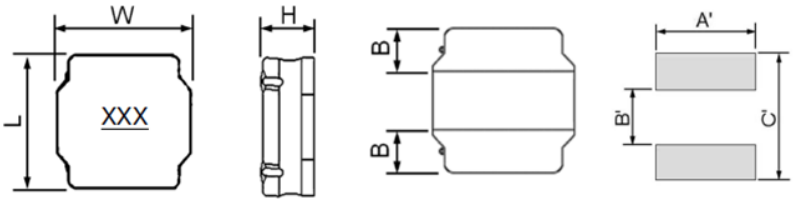
For some special parts, please see the “Part Number & Characteristic” for detail specification



Series	L (mm)	W (mm)	H (mm)	B (mm)	G (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPS3030□□□□PCA	3.0±0.2	3.0±0.2	1.0+0.1/-0.2	0.9±0.2	1.2±0.3	2.7	1.1	3.1	7"	2,000
SPN3030□□□□P_A*	3.0±0.2	3.0±0.2	1.0+0.1/-0.2	1.0±0.3	1.0±0.3	2.7	0.8	3.0	7"	3,000
SPN3030□□□□PSC	3.0±0.2	3.0±0.2	1.3MAX	0.9±0.2	1.2±0.3	2.7	0.7	3.5	7"	2,000
SPN3030□□□□PSC	3.0±0.2	3.0±0.2	1.5±0.2	0.9±0.2	1.2±0.3	2.7	0.7	3.5	7"	2,000
SPS4040□□□□PCA	4.0±0.2	4.0±0.2	1.0MAX	1.1±0.4	2.5±0.4	3.7	1.6	4.1	7"	1,000
SPN4040□□□□ESC	4.0±0.2	4.0±0.2	1.2Max	1.05±0.4	1.9±0.4	4.1	1.9	4.1	13"	4,500
SPN4040□□□□ESG*	4.0±0.2	4.0±0.2	1.8MAX	1.2±0.4	1.6±0.4	4.1	1.5	4.1	13"	3,500
SPS4040□□□□PCH	4.1±0.2	4.1±0.2	2.1Max	1.2±0.3	1.6±0.4	4.1	1.6	4.1	7"	700
SPN4040□□□□ESL*	4.0±0.3	4.0±0.3	3.1MAX	1.3±0.4	1.45±0.45	4.1	0.8	4.1	13"	2,000
SPN5050□□□□PSH	5.0±0.2	5.0±0.2	2.0±0.2	1.3±0.5	2.0±0.4	4.7	1.5	5.5	7"	800
SPN5050□□□□ESN	5.0±0.2	5.0±0.2	4.0+0.1/-0.3	1.7±0.3	1.8±0.4	4.7	1.1	5.5	13"	1,500
SPN6060□□□□PSC	6.0±0.3	6.0±0.3	1.2+0.1/-0.2	1.7±0.4	2.6±0.4	5.7	1.9	6.7	7"	1,000
SPN6060□□□□ESH	6.0±0.2	6.0±0.2	2.0Max	1.6±0.4	2.4±0.4	5.7	3.1	6.3	13"	2,500
SPN6060□□□□ESK	6.0±0.2	6.0±0.2	2.8Max	1.6±0.4	2.6±0.4	5.7	3.1	6.3	13"	1,500
SPN6060□□□□ESP	6.0±0.2	6.0±0.2	4.5Max	1.8±0.4	2.3±0.4	5.7	3.1	6.3	13"	1,000
SPN8080□□□□ESN	8.0±0.2	8.0±0.2	4.2Max	2.1±0.4	3.8±0.4	7.7	3.8	8.0	13"	1,000



Series	L (mm)	W (mm)	H (mm)	B (mm)	G (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPS3030□□□□PCC	3.0±0.2	3.0±0.2	1.2 MAX	0.9±0.2	1.9±0.2	2.7	1.2	3.2	7"	2,000
SPS4040□□□□PCC	4.0±0.2	4.0±0.2	1.2Max	1.1±0.2	2.5±0.2	3.7	1.6	4.1	7"	21000



Series	L (mm)	W (mm)	H (mm)	B (mm)	Recommended Land Patterns			Package	
					A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPN6060□□□□PSC*	6.0±0.2	6.0±0.2	1.2±0.1	1.35±0.2	5.7	3.1	6.3	7"	1,000

*New Series

For some special parts, please see the "Part Number & Characteristic" for detail specification

■ Part Numbers & Characteristic(SPS Series for Metal Coating)

● SPS2016

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPS2016R47NPCA	2.00	1.60	1.00	0.47	uH	±30%	40.0	48.0	3,600	3,400	4,300	3,600	1MHz/1V
SPS2016R68NPCA				0.68	uH	±30%	47.0	56.0	2,850	2,600	3,600	3,000	1MHz/1V
SPS20161R0NPCA				1.00	uH	±30%	63.0	75.0	2,700	2,500	3,000	2,400	1MHz/1V
SPS20161R5NPCA				1.50	uH	±30%	100.0	120.0	2,250	2,150	2,150	1,800	1MHz/1V
SPS20162R2MPCA				2.20	uH	±20%	135.0	160.0	1,750	1,600	1,850	1,550	1MHz/1V
SPS20163R3MPCA				3.30	uH	±20%	193.0	230.0	1,700	1,500	1,500	1,250	1MHz/1V
SPS20164R7MPCA				4.70	uH	±20%	280.0	340.0	1,300	1,250	1,200	1,000	1MHz/1V
SPS20166R8MPCA				6.80	uH	±20%	450.0	540.0	1,020	970	1,000	840	1MHz/1V
SPS2016100MPCA				10.00	uH	±20%	570.0	685.0	950	900	900	750	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPS2520

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPS2520R47NPCA	2.50	2.00	1.00	0.47	uH	±30%	55.0	65.0	3,100	3,000	5,500	4,000	1MHz/1V
SPS2520R47MPCA				0.47	uH	±20%	55.0	65.0	3,100	3,000	5,500	4,000	1MHz/1V
SPS2520R68NPCA				0.68	uH	±30%	52.0	62.0	3,100	2,700	4,400	4,050	1MHz/1V
SPS25201R0NPCA				1.00	uH	±30%	67.0	80.0	2,950	2,550	4,100	3,350	1MHz/1V
SPS25201R5NPCA				1.50	uH	±30%	88.0	106.0	2,250	1,950	3,450	2,850	1MHz/1V
SPS25202R2MPCA				2.20	uH	±20%	124.0	150.0	1,850	1,550	3,200	2,600	1MHz/1V
SPS25203R3MPCA				3.30	uH	±20%	185.0	222.0	1,450	1,250	2,500	2,100	1MHz/1V
SPS25204R7MPCA				4.70	uH	±20%	240.0	290.0	1,300	1,100	2,150	1,750	1MHz/1V
SPS25206R8MPCA				6.80	uH	±20%	360.0	435.0	1,150	960	1,700	1,400	1MHz/1V
SPS2520100MPCA				10.00	uH	±20%	440.0	530.0	960	850	1,550	1,280	1MHz/1V
SPS2520R47NPCC	2.50	2.00	1.20	0.47	uH	±30%	28.5	34.5	4,600	4,200	5,500	4,600	1MHz/1V
SPS2520R68NPCC				0.68	uH	±30%	33.5	40.2	3,900	3,400	4,000	3,300	1MHz/1V
SPS25201R0NPCC				1.00	uH	±30%	46.5	55.5	3,500	3,200	3,700	3,000	1MHz/1V
SPS25201R2NPCC				1.20	uH	±30%	57.0	68.5	3,400	3,150	3,550	2,950	1MHz/1V
SPS25201R5NPCC				1.50	uH	±30%	66.5	80.0	3,000	2,800	2,900	2,400	1MHz/1V
SPS25202R2MPCC				2.20	uH	±20%	93.0	111.0	2,600	2,300	2,500	2,100	1MHz/1V
SPS25203R3MPCC				3.30	uH	±20%	128.0	154.0	2,200	2,000	1,900	1,600	1MHz/1V
SPS25204R7MPCC				4.70	uH	±20%	190.0	230.0	1,850	1,700	1,600	1,300	1MHz/1V
SPS25206R8MPCC				6.80	uH	±20%	220.0	265.0	1,600	1,500	1,350	1,100	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPS3030

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPS3030R47MPCA	3.00	3.00	1.00	0.47	uH	±20%	33.0	39.0	4,500	3,900	6,500	5,400	1MHz/1V
SPS30301R0MPCA				1.00	uH	±20%	74.0	86.0	2,800	2,400	5,200	4,400	1MHz/1V
SPS30301R5MPCA				1.50	uH	±20%	87.0	100.0	2,400	2,100	3,500	3,000	1MHz/1V
SPS30302R2MPCA				2.20	uH	±20%	125.0	144.0	2,200	1,900	3,000	2,500	1MHz/1V
SPS30303R3MPCA				3.30	uH	±20%	215.0	248.0	1,500	1,350	2,400	2,000	1MHz/1V
SPS30304R7MPCA				4.70	uH	±20%	300.0	345.0	1,300	1,150	2,000	1,700	1MHz/1V
SPS30306R8MPCA				6.80	uH	±20%	380.0	437.0	1,150	1,000	1,700	1,400	1MHz/1V
SPS3030100MPCA				10.00	uH	±20%	500.0	575.0	1,000	850	1,300	1,100	1MHz/1V
SPS3030R33MPCC	3.00	3.00	1.20	0.33	uH	±20%	17.0	20.0	6,400	5,500	8,700	6,400	1MHz/1V
SPS3030R47MPCC				0.47	uH	±20%	23.0	27.0	5,500	4,700	7,500	6,300	1MHz/1V
SPS30301R0MPCC				1.00	uH	±20%	43.0	50.0	3,900	3,300	5,100	4,300	1MHz/1V

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPS30301R5MPCC	3.00	3.00	1.20	1.50	uH	±20%	64.0	74.0	3,000	2,500	4,100	3,400	1MHz/1V
SPS30302R2MPCC				2.20	uH	±20%	97.0	112.0	2,400	2,100	3,600	2,800	1MHz/1V
SPS30303R3MPCC				3.30	uH	±20%	145.0	167.0	1,900	1,650	2,700	2,100	1MHz/1V
SPS30304R7MPCC				4.70	uH	±20%	228.0	263.0	1,550	1,350	2,300	1,800	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPS4040

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPS4040R47MPCA	4.00	4.00	1.00	0.47	uH	±20%	35.0	40.0	4,500	4,000	7,900	6,000	1MHz/1V
SPS40401R0MPCA				1.00	uH	±20%	60.0	69.0	3,500	3,000	5,700	4,700	1MHz/1V
SPS40401R5MPCA				1.50	uH	±20%	73.0	84.0	3,100	2,700	4,000	3,000	1MHz/1V
SPS40402R2MPCA				2.20	uH	±20%	100.0	115.0	2,700	2,400	3,100	2,400	1MHz/1V
SPS40403R3MPCA				3.30	uH	±20%	175.0	200.0	2,000	1,800	2,600	2,000	1MHz/1V
SPS40404R7MPCA				4.70	uH	±20%	220.0	250.0	1,900	1,600	2,300	1,900	1MHz/1V
SPS40406R8MPCA				6.80	uH	±20%	320.0	370.0	1,500	1,300	1,800	1,500	1MHz/1V
SPS4040100MPCA				10.00	uH	±20%	440.0	510.0	1,300	1,100	1,700	1,400	1MHz/1V
SPS4040R47MPCC	4.00	4.00	1.20	0.47	uH	±20%	25.0	29.0	5,400	4,600	10,000	7,500	1MHz/1V
SPS40401R0MPCC				1.00	uH	±20%	41.0	47.0	4,200	3,500	7,500	5,200	1MHz/1V
SPS40401R2MPCC				1.20	uH	±20%	41.0	47.0	4,200	3,500	6,200	4,200	1MHz/1V
SPS40401R5MPCC				1.50	uH	±20%	56.0	65.0	3,600	3,200	5,600	4,500	1MHz/1V
SPS40402R2MPCC				2.20	uH	±20%	69.0	79.0	3,200	2,800	4,500	3,800	1MHz/1V
SPS40403R3MPCC				3.30	uH	±20%	113.0	130.0	2,500	2,200	4,000	3,200	1MHz/1V
SPS40404R7MPCC				4.70	uH	±20%	140.0	160.0	2,200	1,900	3,000	2,500	1MHz/1V
SPS40406R8MPCC				6.80	uH	±20%	200.0	230.0	1,800	1,600	2,200	1,900	1MHz/1V
SPS4040100MPCC				10.00	uH	±20%	280.0	330.0	1,600	1,400	2,000	1,700	1MHz/1V
SPS4040R33NPCH	4.10	4.10	2.10	0.33	uH	±30%	11.0	13.0	8,100	7,000	21,000	16,000	1MHz/1V
SPS4040R47NPCH				0.47	uH	±30%	11.0	13.0	8,100	7,000	15,000	10,000	1MHz/1V
SPS4040R68MPCH				0.68	uH	±20%	14.0	16.0	6,000	5,200	12,000	8,000	1MHz/1V
SPS40401R0MPCH				1.00	uH	±20%	23.5	28.0	5,100	4,400	9,400	7,000	1MHz/1V
SPS40401R5MPCH				1.50	uH	±20%	35.0	41.0	4,700	4,100	9,400	6,800	1MHz/1V
SPS40402R2MPCH				2.20	uH	±20%	47.0	54.0	4,000	3,500	7,500	5,400	1MHz/1V
SPS40403R3MPCH				3.30	uH	±20%	66.0	75.0	3,300	3,000	5,200	3,700	1MHz/1V
SPS40404R7MPCH				4.70	uH	±20%	93.0	107.0	2,800	2,500	5,000	3,500	1MHz/1V
SPS40406R8MPCH				6.80	uH	±20%	138.0	158.0	2,300	2,000	4,000	2,900	1MHz/1V
SPS4040100MPCH				10.00	uH	±20%	169.0	194.0	1,900	1,600	3,100	2,200	1MHz/1V
SPS4040150MPCH				15.00	uH	±20%	275.0	350.0	1,650	1,120	2,400	1,300	1MHz/1V
SPS4040220MPCH				22.00	uH	±20%	400.0	460.0	1,400	1,200	1,600	1,350	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

■ Part Numbers & Characteristic (SPN Series for Ferrite Coating)

● SPN2016

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN2016R47NPSA	2.00	1.60	1.00	0.47	uH	±30%	49.0	59.0	2,600	2,340	2,850	2,560	1MHz/1V
SPN2016R68NPSA				0.68	uH	±30%	71.0	86.0	2,250	2,000	2,300	2,200	1MHz/1V
SPN20161R0NPSA				1.00	uH	±30%	96.0	115.0	1,600	1,440	1,880	1,690	1MHz/1V
SPN20161R5NPSA				1.50	uH	±30%	143.0	172.0	1,400	1,260	1,630	1,460	1MHz/1V
SPN20161R8NPSA				1.80	uH	±30%	175.0	210.0	1,350	1,210	1,500	1,350	1MHz/1V
SPN20162R2MPSA				2.20	uH	±20%	196.0	235.0	1,300	1,170	1,400	1,260	1MHz/1V
SPN20163R3MPSA				3.30	uH	±20%	247.0	296.0	1,050	940	1,000	900	1MHz/1V

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN20164R7MPSA	2.00	1.60	1.00	4.70	uH	±20%	370.0	444.0	900	810	850	760	1MHz/1V
SPN20166R8MPSA				6.80	uH	±20%	664.0	797.0	600	540	800	720	1MHz/1V
SPN2016100MPSA				10.00	uH	±20%	1108.0	1330.0	450	400	620	550	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPN2520

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ	Max.	Typ.	Max.	
SPN2520R50NPSA	2.50	2.00	1.00	0.50	uH	±30%	32.0	38.0	2,670	2,400	3,300	3,000	1MHz/1V
SPN2520R68NPSA				0.68	uH	±30%	49.0	59.0	2,400	2,160	2,700	2,430	1MHz/1V
SPN25201R0NPSA				1.00	uH	±30%	68.0	82.0	1,980	1,780	2,400	2,200	1MHz/1V
SPN25201R5MPSA				1.50	uH	±30%	95.0	114.0	1,800	1,490	1,750	1,580	1MHz/1V
SPN25202R2MPSA				2.20	uH	±20%	136.0	163.0	1,680	1,260	1,550	1,390	1MHz/1V
SPN25203R3MPSA				3.30	uH	±20%	207.0	248.0	1,150	1,040	1,300	1,170	1MHz/1V
SPN25204R7MPSA				4.70	uH	±20%	269.0	323.0	990	890	1,200	1,080	1MHz/1V
SPN25206R8MPSA				6.80	uH	±20%	404.0	485.0	810	730	850	770	1MHz/1V
SPN2520100MPSA				10.00	uH	±20%	508.0	610.0	720	640	730	650	1MHz/1V
SPN2520R24NPSC	2.50	2.00	1.20	0.24	uH	±30%	26.0	31.0	4,500	4,000	4,800	4,500	1MHz/1V
SPN2520R47NPSC				0.47	uH	±30%	29.0	35.0	3,700	3,300	3,900	3,500	1MHz/1V
SPN2520R50NPSC				0.50	uH	±30%	32.0	38.0	3,600	3,240	3,800	3,400	1MHz/1V
SPN2520R68NPSC				0.68	uH	±30%	54.0	65.0	3,240	2,700	3,600	3,400	1MHz/1V
SPN25201R0NPSC				1.00	uH	±30%	43.0	52.0	2,600	2,340	2,700	2,450	1MHz/1V
SPN25201R5MPSC				1.50	uH	±20%	72.0	86.0	2,200	1,980	2,300	2,070	1MHz/1V
SPN25202R2MPSC				2.20	uH	±20%	90.0	108.0	1,850	1,750	2,150	1,950	1MHz/1V
SPN25203R3MPSC				3.30	uH	±20%	155.0	186.0	1,450	1,310	1,700	1,600	1MHz/1V
SPN25204R7MPSC				4.70	uH	±20%	212.0	254.0	1,200	1,080	1,500	1,400	1MHz/1V
SPN25206R8MPSC				6.80	uH	±20%	370.0	444.0	1,000	900	1,150	1,040	1MHz/1V
SPN2520100MPSC				10.00	uH	±20%	750.0	900.0	750	680	850	770	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPN3030

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ	Max.	Typ.	Max.	
SPN30302R2NPSA	3.00	3.00	1.10	2.20	uH	±30%	95.0	114.0	- -	1,100	- -	1,100	100KHz/1
SPN30304R7MPSA				4.70	uH	±20%	265.0	293.0	- -	900	- -	750	100KHz/1
SPN3030100MPCA	3.00	3.00	1.10	10.00	uH	±20%	450.0	540.0	- -	540	- -	540	100KHz/1
SPN3301R0NPSC	3.00	3.00	1.3MAX	1.00	uH	±30%	40.0	52.0	- -	2,200	- -	1,870	100KHz, 1V
SPN3301R5NPSC				1.50	uH	±30%	45.0	58.5	- -	2,010	- -	1,620	100KHz, 1V
SPN3302R2NPSC				2.20	uH	±30%	75.0	97.5	- -	1,550	- -	1,200	100KHz, 1V
SPN3303R3MPSC				3.30	uH	±20%	100.0	130.0	- -	1,360	- -	1,050	100KHz, 1V
SPN3304R7MPSC	3.00	3.00	1.30MAX	4.70	uH	±20%	150.0	195.0	- -	1,240	- -	900	100KHz, 1V
SPN3306R8MPSC				6.80	uH	±20%	190.0	247.0	- -	980	- -	750	100KHz, 1V
SPN330100MPSC				10.00	uH	±20%	320.0	416.0	- -	830	- -	600	100KHz, 1V
SPN330150MPSC				15.00	uH	±20%	360.0	468.0	- -	710	- -	450	100KHz, 1V
SPN330220MPSC				22.00	uH	±20%	645.0	838.5	- -	530	- -	420	100KHz, 1V
SPN330330MPSC				33.00	uH	±20%	875.0	1137.5	- -	460	- -	360	100KHz, 1V
SPN330470MPSC				47.00	uH	±20%	1450.0	1885.0	- -	350	- -	270	100KHz, 1V
SPN30301R0NPSE	3.00	3.00	1.70	1.00	uH	±30%	39.0	50.7	- -	2,350	- -	2,320	100KHz/1V
SPN30301R5NPSE				1.50	uH	±30%	50.0	65.0	- -	1,700	- -	2,000	100KHz/1V
SPN30302R2MPSE				2.20	uH	±20%	60.0	78.0	- -	1,600	- -	1,600	100KHz/1V

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets.
(Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ	Max.	Typ.	Max.	
SPN30303R3MPSE	3.00	3.00	1.70	3.30	uH	±20%	80.0	104.0	- -	1,360	- -	1,320	100KHz/1V
SPN30304R7MPSE				4.70	uH	±20%	125.0	162.5	- -	1,090	- -	1,100	100KHz/1V
SPN30306R8MPSE				6.80	uH	±20%	200.0	260.0	- -	850	- -	850	100KHz/1V
SPN3030100MPSE				10.00	uH	±20%	250.0	325.0	- -	770	- -	720	100KHz/1V
SPN3030150MPSE				15.00	uH	±20%	350.0	455.0	- -	650	- -	660	100KHz/1V
SPN3030220MPSE				22.00	uH	±20%	460.0	598.0	- -	570	- -	520	100KHz/1V
SPN3030330MPSE				33.00	uH	±20%	820.0	1066.0	- -	430	- -	440	100KHz/1V
SPN3030470MPSE				47.00	uH	±20%	1250.0	1625.0	- -	350	- -	350	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPN4040

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN40401R0NESC	4.00	4.00	1.20MAX	1.00	uH	±30%	42.0	55.0	2,300	2,000	3,000	2,800	100KHz/1V
SPN40402R2MESC				2.20	uH	±20%	75.0	100.0	1,900	1,320	2,000	1,760	100KHz/1V
SPN40403R3MESC				3.30	uH	±20%	75.0	100.0	1,900	1,320	1,650	1,350	100KHz/1V
SPN40404R7MESC				4.70	uH	±20%	125.0	163.0	1,400	1,000	1,500	1,150	100KHz/1V
SPN40406R8MESC				6.80	uH	±20%	175.0	228.0	1,100	850	1,300	1,150	100KHz/1V
SPN4040100MESC				10.00	uH	±20%	180.0	234.0	1,000	800	950	850	100KHz/1V
SPN4040150MESC				15.00	uH	±20%	310.0	400.0	800	650	800	680	100KHz/1V
SPN4040220MESC				22.00	uH	±20%	530.0	690.0	750	490	700	500	100KHz/1V
SPN40401R0NESG	4.00	4.00	1.80MAX	1.00	uH	±30%	27.0	33.0	3,720	3,200	4,590	4,000	100KHz, 1V
SPN40401R5NESG				1.50	uH	±30%	37.0	48.0	3,000	2,400	3,750	3,300	100KHz, 1V
SPN40402R2MESG				2.20	uH	±20%	42.0	51.0	2,590	2,200	3,110	3,000	100KHz, 1V
SPN40403R3MESG				3.30	uH	±20%	55.0	66.0	2,240	2,000	2,560	2,300	100KHz, 1V
SPN40404R7MESG				4.70	uH	±20%	70.0	84.0	1,880	1,700	2,330	2,000	100KHz, 1V
SPN40406R8MESG				6.80	uH	±20%	98.0	118.0	1,690	1,450	1,820	1,600	100KHz, 1V
SPN4040100MESG				10.00	uH	±20%	150.0	180.0	1,250	1,200	1,440	1,300	100KHz, 1V
SPN4040150MESG				15.00	uH	±20%	210.0	252.0	0,920	0,850	1,150	1,100	100KHz, 1V
SPN4040220MESG				22.00	uH	±20%	290.0	348.0	0,810	0,720	920	900	100KHz, 1V
SPN4040R68NESL	4.00	4.00	3.10MAX	0.68	uH	± 30%	10.0	13.0	5,100	4,560	8,000	6,800	100KHz, 1V
SPN40401R0NESL				1.00	uH	± 30%	14.0	18.0	4,700	4,150	5,700	5,260	100KHz, 1V
SPN40401R5NESL				1.50	uH	± 30%	20.0	26.0	3,600	3,340	5,300	4,840	100KHz, 1V
SPN40402R2MESL				2.20	uH	± 20%	30.0	39.0	3,200	2,950	5,800	4,900	100KHz, 1V
SPN40403R3MESL				3.30	uH	±20%	40.0	52.0	2,600	2,400	3,600	3,300	100KHz, 1V
SPN40404R7MESL				4.70	uH	±20%	60.0	78.0	2,300	2,000	3,200	2,900	100KHz, 1V
SPN40406R8MESL				6.80	uH	±20%	90.0	117.0	1,700	1,600	3,000	2,750	100KHz, 1V
SPN4040100MESL				10.00	uH	±20%	100.0	130.0	1,600	1,500	2,400	1,950	100KHz, 1V
SPN4040150MESL				15.00	uH	±20%	190.0	247.0	1,200	1,110	1,800	1,650	100KHz, 1V
SPN4040220MESL				22.00	uH	±20%	225.0	292.0	1,200	1,000	1,400	1,300	100KHz, 1V
SPN4040330MESL				33.00	uH	±20%	330.0	429.0	0,920	0,840	1,200	1,100	100KHz, 1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPN5050

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN5050R47NPSH	5.00	5.00	2.20	0.47	uH	±30%	12.0	14.4	5,800	5,000	6,900	6,100	100KHz/1V
SPN50501R0NPSH				1.00	uH	±30%	21.0	25.2	3,710	3,600	4,500	4,000	100KHz/1V
SPN50501R5NPSH				1.50	uH	±30%	26.0	31.2	3,540	3,200	3,800	3,350	100KHz/1V
SPN50502R2NPSH				2.20	uH	±30%	35.0	42.0	3,200	2,900	3,200	2,900	100KHz/1V

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN50503R3NPSH	5.00	5.00	2.20	3.30	uH	±30%	48.0	57.6	3,080	2,400	2,700	2,400	100KHz/1V
SPN50504R7MPSH				4.70	uH	±20%	60.0	72.0	2,370	2,000	2,270	2,000	100KHz/1V
SPN50506R8MPSH				6.80	uH	±20%	90.0	108.0	2,200	1,650	1,850	1,600	100KHz/1V
SPN5050100MPSH				10.00	uH	±20%	120.0	144.0	1,850	1,450	1,480	1,300	100KHz/1V
SPN5050150MPSH				15.00	uH	±20%	165.0	198.0	1,480	1,200	1,260	1,100	100KHz/1V
SPN5050220MPSH				22.00	uH	±20%	260.0	312.0	1,230	1,000	1,100	900	100KHz/1V
SPN50501R0NESN	5.00	5.00	4.00	1.00	uH	±30%	12.0	15.6	5,100	4,900	8,200	7,350	100KHz/1V
SPN50501R2NESN				1.20	uH	±30%	16.0	20.8	4,900	4,150	7,400	6,500	100KHz/1V
SPN50501R5NESN				1.50	uH	±30%	17.0	22.0	4,800	4,500	7,300	6,400	100KHz/1V
SPN50502R2NESN				2.20	uH	±30%	19.0	24.7	4,400	3,800	5,700	5,000	100KHz/1V
SPN50503R3NESN				3.30	uH	±30%	24.0	31.2	3,950	3,400	4,600	4,000	100KHz/1V
SPN50504R7NESN				4.70	uH	±30%	32.0	41.6	3,300	3,100	3,950	3,500	100KHz/1V
SPN50506R8MESN				6.80	uH	±20%	43.0	55.9	2,900	2,500	3,500	2,900	100KHz/1V
SPN5050100MESN				10.00	uH	±20%	56.0	73.0	2,550	2,100	3,000	2,300	100KHz/1V
SPN5050150MESN				15.00	uH	±20%	80.0	104.0	2,200	2,000	2,300	2,000	100KHz/1V
SPN5050220MESN				22.00	uH	±20%	126.0	164.0	1,600	1,500	1,900	1,600	100KHz/1V
SPN5050101MESN				100.00	uH	±20%	560.0	728.0	770	700	820	750	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPN6060

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN60606R8NPSC	6.00	6.00	1.30	6.80	uH	± 30%	290.0	320.0	- -	- -	- -	1,600	100KHz, 1V
SPN6060100MPSC	6.00	6.00	1.30	10.00	uH	± 20%	335.0	402.0	- -	770	- -	1,450	100KHz, 1V
SPN60600R8NESH	6.00	6.00	2.00MAX	0.80	uH	±30%	20.0	24.0	4,350	3,900	5,650	4,600	100KHz/1V
SPN60601R5NESH				1.50	uH	±30%	26.0	31.2	4,200	3,600	5,300	4,300	100KHz/1V
SPN60602R2NESH				2.20	uH	±30%	34.0	40.8	3,400	2,900	4,500	3,750	100KHz/1V
SPN60603R3NESH				3.30	uH	±30%	40.0	48.0	3,100	2,750	3,700	3,150	100KHz/1V
SPN60604R7MESH				4.70	uH	±20%	58.0	69.6	2,500	2,150	3,600	3,000	100KHz/1V
SPN60606R8MESH				6.80	uH	±20%	85.0	102.0	2,100	1,800	2,600	2,000	100KHz/1V
SPN6060100MESH				10.00	uH	±20%	125.0	150.0	1,700	1,400	2,240	1,700	100KHz/1V
SPN6060150MESH				15.00	uH	±20%	145.0	189.0	1,500	1,200	1,400	1,200	100KHz/1V
SPN6060220MESH				22.00	uH	±20%	200.0	265.0	1,300	1,000	1,200	1,050	100KHz/1V
SPN60602R2NESK	6.00	6.00	2.80MAX	2.20	uH	±30%	20.0	26.0	- -	3,700	- -	4,200	100KHz/1V
SPN60603R3MESK				3.30	uH	±20%	23.0	29.9	- -	3,400	- -	3,600	100KHz/1V
SPN60604R7MESK				4.70	uH	±20%	31.0	40.3	- -	3,000	- -	2,700	100KHz/1V
SPN60606R0MESK				6.00	uH	±20%	40.0	52.0	- -	2,500	- -	2,500	100KHz/1V
SPN6060100MESK				10.00	uH	±20%	67.0	84.5	- -	1,900	- -	1,900	100KHz/1V
SPN6060150MESK				15.00	uH	±20%	95.0	114.0	- -	1,800	- -	1,600	100KHz/1V
SPN6060220MESK				22.00	uH	±20%	135.0	175.5	- -	1,400	- -	1,300	100KHz/1V
SPN6060330MESK				33.00	uH	±20%	22.0	250.0	- -	1,100	- -	1,200	100KHz/1V
SPN6060101MESK				100.00	uH	±20%	600.0	780.0	- -	660	- -	620	100KHz/1V
SPN6060221MESK				220.00	uH	±20%	1500.0	1600.0	- -	200	- -	200	100KHz/1V
SPN60601R0NESP	6.00	6.00	4.50MAX	1.00	uH	±30%	14.0	18.2	5,200	4,500	11,000	9,800	100KHz/1V
SPN60601R5NESP				1.50	uH	±30%	12.0	15.6	5,300	4,950	9,200	8,800	100KHz/1V
SPN60602R2NESP				2.20	uH	±30%	22.0	28.6	4,100	3,600	7,300	6,400	100KHz/1V
SPN60603R3NESP				3.30	uH	±30%	24.0	31.2	4,000	3,300	6,500	5,600	100KHz/1V
SPN60604R7MESP				4.70	uH	±20%	30.0	39.0	3,600	3,100	5,400	4,400	100KHz/1V
SPN60606R8MESP				6.80	uH	±20%	36.0	46.8	3,300	3,000	4,300	3,600	100KHz/1V
SPN6060100MESP				10.00	uH	±20%	46.0	59.8	2,800	2,400	3,600	3,100	100KHz/1V

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN6060150MESP	6.00	6.00	4.50MAX	15.00	uH	±20%	70.0	91.0	2,300	1,900	3,000	2,500	100KHz/1V
SPN6060220MESP				22.00	uH	±20%	107.0	139.1	1,900	1,600	2,400	2,000	100KHz/1V
SPN6060330MESP				33.00	uH	±20%	160.0	188.5	1,750	1,500	2,300	2,100	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

● SPN8080

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN80801R0NESN	8.00	8.00	4.00	1.00	uH	±30%	6.0	7.8	9,600	7,800	14,000	13,000	100KHz/1V
SPN80802R0NESN				2.00	uH	±30%	9.0	11.7	7,600	6,300	9,200	8,100	100KHz/1V
SPN80802R2NESN				2.20	uH	±30%	9.0	11.7	7,600	6,300	9,200	8,100	100KHz/1V
SPN80803R3NESN				3.30	uH	±30%	15.0	19.5	6,000	4,900	6,800	6,400	100KHz/1V
SPN80803R6NESN				3.60	uH	±30%	15.0	19.5	6,000	4,900	6,800	6,400	100KHz/1V
SPN80804R7NESN				4.70	uH	±30%	18.0	23.4	5,200	4,100	5,900	5,400	100KHz/1V
SPN80806R8NESN				6.80	uH	±30%	25.0	32.5	4,400	3,700	4,800	4,400	100KHz/1V
SPN80808R2MESN				8.20	uH	±20%	26.0	34.0	3,700	3,450	4,400	4,200	100KHz/1V
SPN8080100MESN				10.00	uH	±20%	34.0	44.2	3,500	3,100	4,100	3,800	100KHz/1V
SPN8080150MESN				15.00	uH	±20%	50.0	65.0	3,000	2,400	3,200	2,900	100KHz/1V
SPN8080220MESN				22.00	uH	±20%	66.0	85.8	2,600	2,200	2,700	2,400	100KHz/1V
SPN8080330MESN				33.00	uH	±20%	100.0	130.0	1,900	1,700	2,300	2,000	100KHz/1V
SPN8080470MESN				47.00	uH	±20%	140.0	182.0	1,600	1,500	1,800	1,500	100KHz/1V
SPN8080680MESN				68.00	uH	±20%	196.0	255.0	1,450	1,250	1,550	1,450	100KHz/1V
SPN8080101MESN				100.00	uH	±20%	280.0	364.0	1,100	1,000	1,300	1,100	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

Multi-Layer Inductor

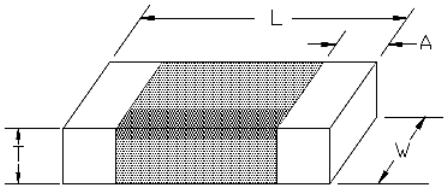
■ Feature

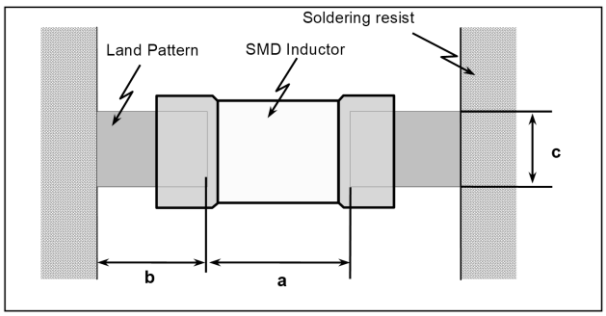
1. Small and light weight
2. Low DC resistance
3. RoHS complaint

■ Application

DC/DC converter for the Mobile equipment; Mobile Phone, DSC, WLAN

■ External Dimension





Series mm/(inch)	L (mm)	W (mm)	T (mm)	A (Min/Max)	Recommended Pad Dimensions				Package	
					LxW (mm)	a (mm)	b (mm)	c (mm)	Reel	Amount (pcs)
IP1608 (0603)	1.6±0.15	0.8±0.15	0.95max	0.1/0.5	1.6x0.8	0.8to1.0	0.6to0.8	0.6to0.8	7”	4,000
IP2012_S (0805)	2.0±0.2	1.25±0.2	1.0max	0.2/0.8	2.0x1.25	0.8to1.2	0.8to1.2	0.9to1.6	7”	3,000
IP2012_L (0805)	2.0±0.2	1.25±0.2	1.0max	0.5±0.3	2.0x1.25	0.8to1.2	0.8to1.2	0.9to1.6	7”	3,000
IP2016 (0806)	2.0±0.2	1.6±0.2	1.0max	0.2/0.8	2.0x1.6	0.8to1.2	0.8to1.2	0.9to1.6	7”	3,000
IP2520 (1008)	2.5±0.2	2.0±0.2	1.0max	0.2/0.8	2.5x2.0	1.0to1.4	0.6to1.0	1.8to2.2	7”	3,000

■ PartNumbers&Characteristic

● IP1608(EIA0603)

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Rated Current (mA)	Saturation Current (mA)	SRF (MHz)Min.	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Typ.		
IP16081R0MTS8	1.60	0.80	0.95	1.00	uH	±20%	170.0	200.0	750	500	140	1MHz/1V
IP16082R2MTS8				2.20	uH	±20%	270.0	300.0	650	250	80	1MHz/1V

※OPERATINGTEMPERATURERANGE：-40℃TO+85℃

● IP2012(EIA0805)

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Rated Current (mA)	Saturation Current (mA)	SRF (MHz) Min.	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Typ.		
IP2012R47MPS9	2.00	1.25	1.00	0.47	uH	±20%	60.0	80.0	1,200	1,200	160	1MKHz/1V
IP20121R0MPS9				1.00	uH	±20%	110.0	140.0	1,000	1,100	120	1MKHz/1V
IP20121R5MPS9				1.50	uH	±20%	150.0	200.0	800	900	95	1MKHz/1V
IP20122R2MPS9				2.20	uH	±20%	150.0	200.0	800	450	70	1MKHz/1V
IP20123R3MPS9				3.30	uH	±20%	200.0	240.0	700	300	70	1MKHz/1V
IP20124R7MPS9				4.70	uH	±20%	230.0	280.0	700	180	60	1MKHz/1V
IP20122R2MPL9	2.00	1.25	1.00	2.20	uH	±20%	340.0	430.0	700	- -	85	1MKHz/100mV
IP20124R7MPL9				4.70	uH	±20%	460.0	580.0	460	- -	50	1MKHz/100mV

※OPERATINGTEMPERATURERANGE：-40℃TO+85℃

● IP2016(EIA0806)

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Rated Current (mA)	Saturation Current (mA)	SRF (MHz)Min.	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Typ.		
IP2016R47MPS9	2.00	1.60	1.00	0.47	uH	±20%	60.0	750.0	1,600	1,200	150	1MKHz/1V
IP20161R0MPS9				1.00	uH	±20%	90.0	120.0	1,300	1,100	100	1MKHz/1V
IP20161R5MPS9				1.50	uH	±20%	100.0	130.0	1,200	800	85	1MKHz/1V
IP20162R2MPS9				2.20	uH	±20%	110.0	140.0	1,200	600	65	1MKHz/1V
IP20163R3MPS9				3.30	uH	±20%	130.0	160.0	1,100	300	65	1MKHz/1V
IP20164R7MPS9				4.70	uH	±20%	160.0	200.0	900	200	55	1MKHz/1V

※OPERATINGTEMPERATURERANGE：-40℃TO+85℃

● IP2520(EIA1008)

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Rated Current (mA)	Saturation Current (mA)		SRF (MHz)Min.	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Typ.	Max.		
IP2520R47MPS9	2.50	2.00	1.00	0.47	uH	±20%	40.0	50.0	1,800	1,600	1,280	100	1MKHz/1V
IP25201R0MPS9				1.00	uH	±20%	60.0	80.0	1,400	1,200	960	95	1MKHz/1V
IP25201R5MPS9				1.50	uH	±20%	75.0	90.0	1,300	800	640	80	1MKHz/1V
IP25202R2MPS9				2.20	uH	±20%	75.0	90.0	1,300	700	560	60	1MKHz/1V
IP25203R3MPS9				3.30	uH	±20%	90.0	120.0	1,200	300	240	55	1MKHz/1V
IP25204R7MPS9				4.70	uH	±20%	120.0	150.0	1,100	300	240	45	1MKHz/1V

※OPERATINGTEMPERATURERANGE：-40℃TO+85℃

MetalMulti-Layer Inductor

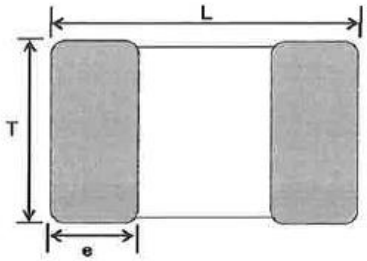
■ Feature

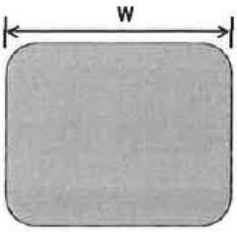
1. Smallandlightweight
2. LowDCresistance
3. RoHScomplaint

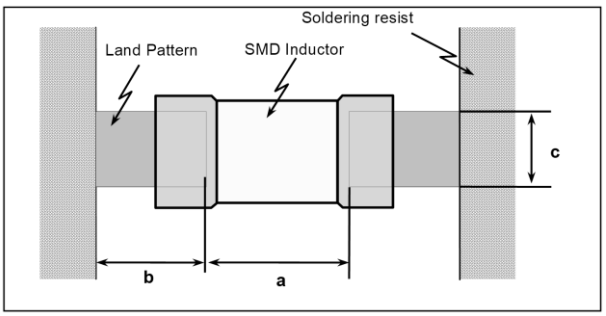
■ Application

DC/DCconverterfortheMobileequipment;MobilePhone,DSC,WLAN

■ ExternalDimension







Series mm/(inch)	L (mm)	W (mm)	T (mm)	e (mm)	RecommendedPadDimensions			Package	
					a (mm)	b (mm)	c (mm)	Reel	Amount (pcs)
IP1608 (0603)	1.6±0.2	0.8±0.2	0.65max	0.3±0.2	0.8to1.0	0.6to0.8	0.6to0.8	7”	4,000
IP2012 (0805)	2.0±0.2	1.25±0.2	0.80max	0.5±0.3	0.8to1.2	0.8to1.2	0.9to1.6	7”	4,000

■ PartNumbers&Characteristic

● IP1608_C(EIA0603)

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Temperature RiseCurrent (mA)		Saturation Current (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
IP1608R24MPC6	1.6	0.8	0.65	0.24	uH	±20%	75.0	100.0	1,700	1,500	3,100	2,600	1MHz/10V
IP1608R47MPC6				0.47	uH	±20%	114.0	150.0	1,400	1,200	2,400	2,000	1MHz/10V
IP16081R0MPC6				1.00	uH	±20%	270.0	340.0	900	800	1,700	1,400	1MHz/10V

※OPERATINGTEMPERATURERANGE：-40℃TO+125℃(Inclduing self-generated heat)

● IP2012_C(EIA0805)

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Temperature RiseCurrent (mA)		Saturation Current (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
IP2012R11MPC8	2.0	1.25	0.80	0.11	uH	±20%	9.1	12.0	7,900	6,900	6,600	5,800	1MHz/10V
IP2012R24MPC8				0.24	uH	±20%	14.0	17.0	7,000	6,000	5,200	4,800	1MHz/10V
IP2012R47MPC8				0.47	uH	±20%	26.0	32.0	5,000	4,800	4,400	4,000	1MHz/10V

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/