

CONTENT (AUTOMOTIVE APPLICATION)

PRODUCT RANGE 2

ORDERING CODE FOR MLCC 5

AUTOMOTIVE (AEC-Q200 COMPLIANT) FOR MLCC 6

ORDERING CODE FOR INDUCTOR 7

AUTOMOTIVE TYPE INDUCTOR FOR MOLDING INDUCTOR 8

Product Range

- Automotive Application MLCC
- NP0 Series

Series	Size (inch)	Capacitance Range (F)								
		0.1pF	1pF	10pF	100pF	1nF	10nF	100nF		
C0603NP0_A	0201		0.2pF			220pF				
C1005NP0_A	0402		0.2pF				1.5nF			
C1608NP0_A	0603		0.3pF					10nF		
C2012NP0_A	0805		0.5pF				1nF	10nF		
C3216NP0_A	1206				100pF			10nF		

■ Microwave Type

Series	Size (inch)	Capacitance Range (F)								
		0.1pF	1pF	10pF	100pF	1nF	10nF	100nF		
C0603NP0_H	0201		0.2pF		100pF					
C1005NP0_H	0402		0.2pF		100pF					
C1608NP0_H	0603		0.3pF		100pF					
C2012NP0_H	0805		0.5pF			150F				

■ X7R Series

Series	Size (inch)	Capacitance Range (F)							
		100pF	1nF	10nF	100nF	1uF	10uF	100uF	220uF
C0603X7R_A	0201	100pF			100nF				
C1005X7R_A	0402	100pF				220nF			
C1608X7R_A	0603	100pF					2.2uF		
C2012X7R_A	0805		1nF				4.7uF		

■ X8R Series

Series	Size (inch)	Capacitance Range (F)							
		100pF	1nF	10nF	100nF	1uF	10uF	100uF	220uF
C1005X8R_A	0402		1nF		100nF				
C1608X8R_A	0603		1nF		100nF				

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■ Automotive Application Inductor

● 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_LN	5.0*5.0	4			4.7 uH	47 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			
	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	

Automotive Type

● 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	

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● 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											
	ACM1313_SO	13.0*13.0	10						4.7 uH		33 uH			

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Ordering Code for MLCC

C I005 NP0 I01 J G T S Δ

PRODUCT CODE

C: MLCC

SIZE in mm (EIA CODE,in inch)

Code	EIA	Code	EIA	Code	EIA
0402	01005	2012	0805	4532	1812
0603	0201	3216	1206		
1005	0402	3225	1210		
1608	0603	4520	1808		

T. C.

NP0: 0 ± 30ppm/°C -55°C to +125°C
 X5R: ±15% -55°C to +85°C X7R: ±15% X7S:±22% X7T: +22%/-33%
 X7U: +22%/-56% -55°C to +125°C X6S: ±22% -55°C to +105°C

CAPACITANCE CODE

Expressed in pico-farads and identified by a three-digit number.
 First two digits represent significant figures.
 Last digit specifies the number of zeros.
 (Use 9 for 1.0 through 9.9pF ; Use 8 for 0.20 through 0.99pF)

Examples:

Code	Cap (pF)
478	0.47
229	2.2
101	100
102	1000

TOLERANCE CODE

A: ± 0.05pF B: ± 0.1pF C: ± 0.25pF D: ± 0.5pF F: ±1%
 G: ±2% J: ±5% K: ±10% M: ±20%

VOLTAGE CODE

B: 4V C: 6.3V D:10V E:16V F: 25V N: 35V G: 50V H:100V
 J: 200V K: 250V L: 500V M: 630V P:1KV Q: 2KV R: 3KV S: 4KV

PACKAGING CODE

T: Paper tape reel Ø180mm (7") P: Embossed tape reel Ø180mm (7")
 N: Paper tape reel Ø250mm (10") D: Embossed tape reel Ø250mm (10")
 A: Paper tape reel Ø330mm (13") E: Embossed tape reel Ø330mm (13")
 W: Special Packing

Application Code

A: Automotive Infotainment with AEC-Q200
 H: Microwave with AEC-Q200 B: Soft termination with AEC-Q200

Thickness Code

Code	Thick (mm)	Code	Thick (mm)	Code	Thick (mm)
.	Standard Thick	D	0.80	L	1.60
Z	0.20	E	0.85	N	2.00
A	0.30	J	1.00	P	2.50
Q	0.45	F	1.15	R	3.20
B	0.50	G	1.25	S	1.90
C	0.60	I	0.95		
M	0.70	H	1.50		

Automotive Type

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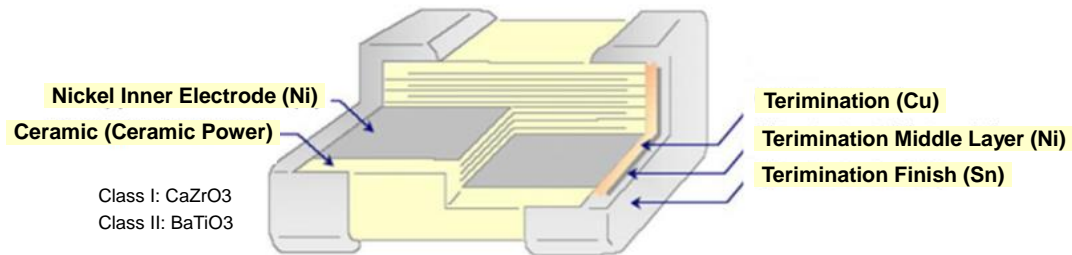
Automotive (AEC-Q200 Compliant) for MLCC

■ E Standard Number

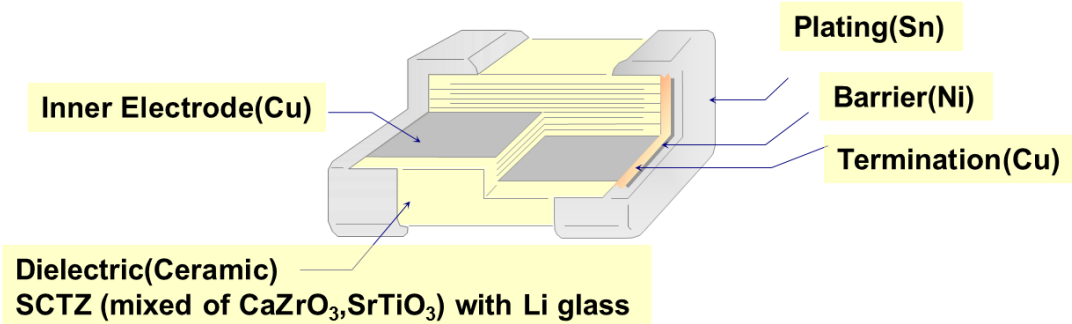
E3	1.0						2.2						4.7											
E6	1.0			1.5			2.2			3.3			4.7			6.8								
E12	1.0	1.2	1.5	1.8	2.2	2.7	3.3	3.9	4.7	5.6	6.8	8.2												
E24	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.6	3.9	4.3	4.7	5.1	5.6	6.2	6.8	7.5	8.2	9.1

■ Structure

GENERAL PURPOSE / SUPER SMALL SIZE (EIA 01005)
HIGH FREQUENCY APPLICATION / MIDDLE-HIGH VOLTAGE (100V~3KV)
AUTOMOTIVE APPLICATION



MICROWAVE TYPE



Automotive Application



Ordering Code for Inductor

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)
- SPH : Coating Inductor(High Current)
- 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 X 12.8
4040	4.0 X 4.0	1717	17.0 X 17.0
		2222	22.0 X 22.0

INDUCTOR 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

Automotive Type

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Automotive (AEC-Q200 Compliant) for Inductor

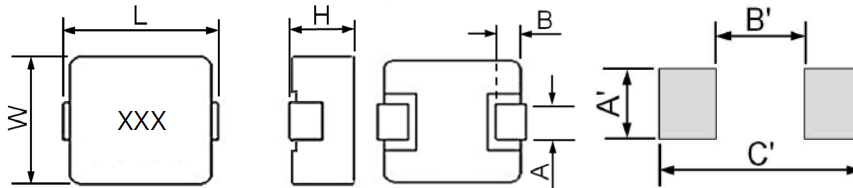
■ **Feature**

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

■ **Standard External Dimensions**

■ **Application**

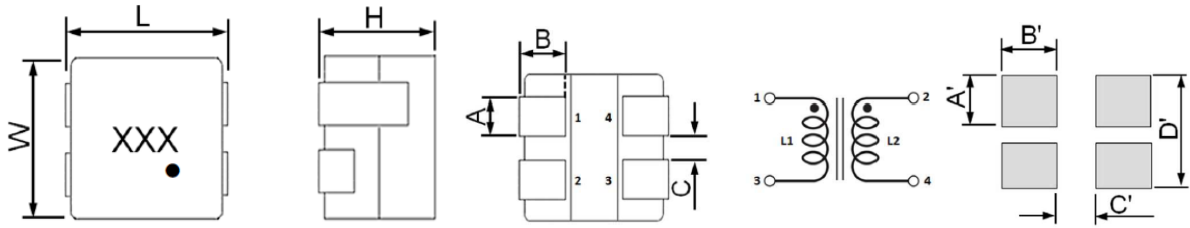
1. VGA card applications
2. DC-DC Converter applications
3. Low profile, high current power supplies
4. Automotive Application



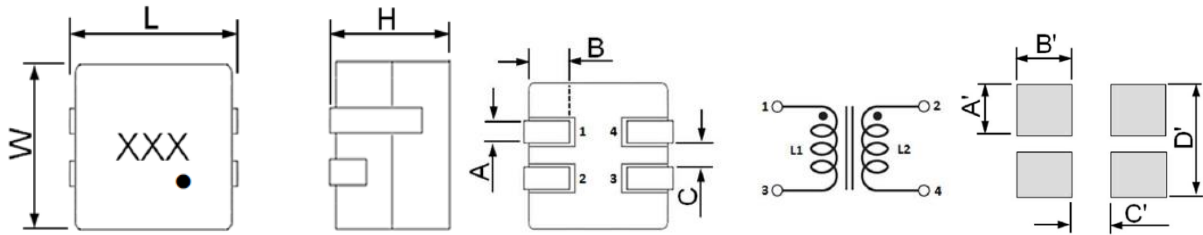
Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B (mm)	C' (mm)	Reel	Amount(pcs)
SAM4040□□□□E_C	4.7±0.3	4.2±0.2	1.0±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13"	3,500
SAM4040□□□□E_H	4.7±0.3	4.2±0.2	1.8±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13"	2,000
SAM5050□□□□E_E	5.7±0.3	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□□□□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) Max.	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current I _{dc} (mA) Max.	Saturation Current I _{sat} (mA) Max.	Measuring Condition
	Length	Width		Value	Unit		Typ.	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 (I_{sat}) : the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (I_{dc}) : the maximum DC current will cause temperature rising approximately 40°C.

■ SAM5050

DARFON P/N	Size		Thickness (mm) Max.	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current I _{dc} (mA) Max.	Saturation Current I _{sat} (mA) Max.	Measuring Condition
	Length	Width		Value	Unit		Typ.	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

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DARFON P/N	Size		Thickness (mm) Max.	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating I _{dc} (mA) Max.	Saturation Current I _{sat} (mA) Max.	Measuring Condition
	Length	Width		Value	Unit		Typ.	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
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
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	5.70	5.20	4.00	33.00	uH	±20%	250.0	290.0	1,700	2,000	100KHz/1V
SAM50504R7MELN				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
SAM5050470MELN				47.00	uH	±20%	250.0	290.0	1,700	2,000	100KHz/1V

※ Saturation current (I_{sat}) : the maximum DC current will cause inductance drop approximately 30% from initial value.
 ※ Heat rating current (I_{dc}) : the maximum DC current will cause temperature rising approximately 40°C.

SAM7070

DARFON P/N	Size		Thickness (mm) Max.	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current I _{dc} (mA) Max.	Saturation Current I _{sat} (mA) Max.	Measuring Condition
	Length	Width		Value	Unit		Typ.	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

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DARFON P/N	Size		Thickness (mm) Max.	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating I _{dc} (mA) Max.	Saturation Current I _{sat} (mA) Max.	Measuring Condition			
	Length	Width		Value	Unit		Typ.	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				7.20	6.60	4.00	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	7.20	6.60	4.00	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 (I_{sat}) : the maximum DC current will cause inductance drop approximately 30% from initial value.

※ Heat rating current (I_{dc}) : the maximum DC current will cause temperature rising approximately 40°C.

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.)

■ SAM8080

DARFON P/N	Size		Thickness (mm) Max.	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width		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
SAM8080101MELW				100.00	uH	±20%	285.0	315.0	2,000	1,900	2,900	2,400	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°C.

■ SAM1010

DARFON P/N	Size		Thickness (mm) Max.	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width		Value	Unit		Typ.	Max.	Typ.	Max.	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				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
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

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DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current I _{dc} (mA)		Saturation Current I _{sat} (mA)		Measuring Condition
	Length	Width		Max.	Value		Unit	Typ.	Max.	Typ.	Max.	Typ.	
SAM1010220MELW	11.20	10.00	5.50	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	3,600	3,000	100KHz/1V

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

※Heat rating current (I_{dc}) : the maximum DC current will cause temperature rising approximately 40°C.

■ SAM1313

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance (mΩ)		Heat Rating Current I _{dc} (mA)	Saturation Current I _{sat} (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 (I_{sat}) : the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (I_{dc}) : the maximum DC current will cause temperature rising approximately 40°C.

■ 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 I _{dc} (mA)		Saturation Current I _{sat} (mA)		Measuring Condition
	Length	Width		Max.	Value		Unit	Typ.	Max.	Typ.	Max.	Typ.	
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

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.)

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.	
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°C.

■ 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°C.

■ 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°C.

■ 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
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°C.