


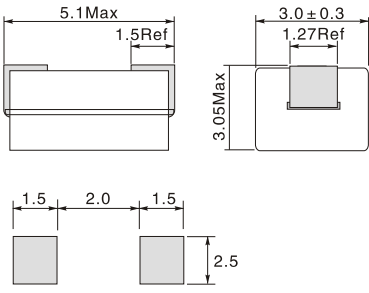
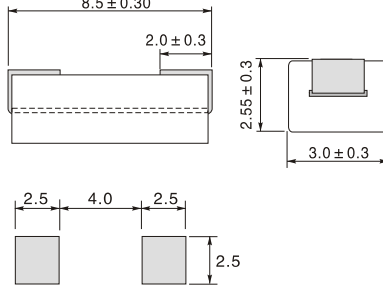
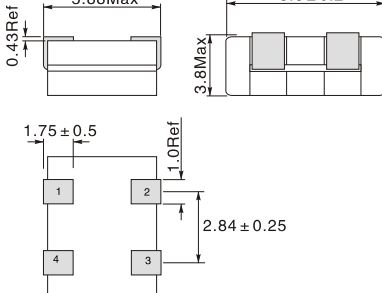


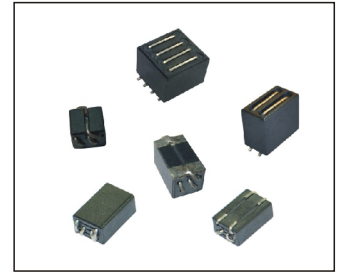
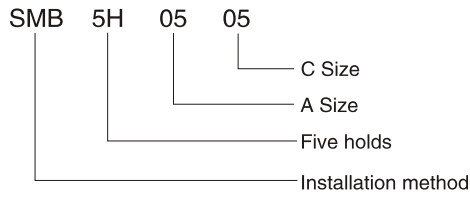
HIGH CURRENT FERRITE BEADS FOR EMI SUPPRESSION (SMB SERIES)

Type

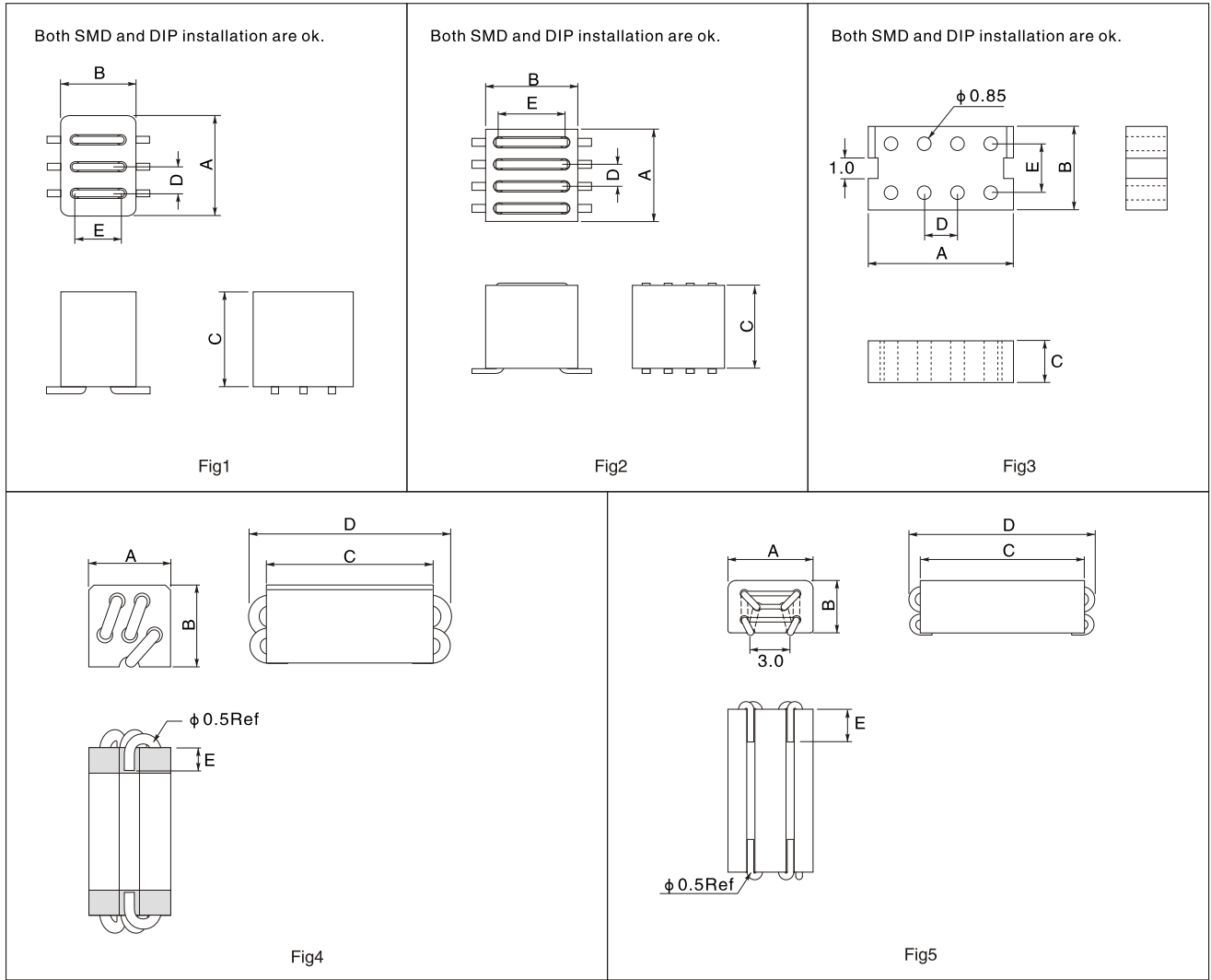
Type	 SMB403025-45	Type	 SMB853025-75	Type	 SMB564725-25
Z@25MHz	30 Ω Min	Z@25MHz	50 Ω Min	Z@25MHz	15 Ω Min
Z@100MHz	49 Ω Min	Z@100MHz	76 Ω Min	Z@100MHz	25 Ω Min
Rated current	9A max.	Rated current	5A max.	Rated current	15A max.
					

MULTILINE SUPPRESSOR BEADS(_ H)

Ordering code



CONFIGURATIONS(mm)



DIMENSION OF MAIN PRODUCTIONS & IMPEDANCE@25°C

Part No.	Fig.	A	B	C	D	E	IMPEDANCE	
							25MHz(Ω)	100MHz(Ω)
SMB3H0607	5	6.5±0.25	4.0±0.25	7.0±0.3	10.0±0.3	2.5±0.5	75	141
SMB3H0610	5	6.5±0.25	4.0±0.25	10.0±0.3	13.0±0.3	3.25±0.75	109	213
SMB(DIP)6H0710	1	7.6±0.25	5.0±0.2	10.0±0.25	2.54±0.1	2.54±0.1	216	253
SMB(DIP)8H1002	3	10.2±0.3	6.0±0.2	2.6±0.15	2.54±0.1	2.54±0.1	48	73
SMB(DIP)8H1110	2	11.2±0.3	11.2±0.3	10.2±0.25	2.54±0.1	7.62±0.1	239	337
SMB5H0508	4	5.0±0.25	5.0±0.25	8.5±0.3	11.0±0.3	2.0±0.5	435	580

SMD EMI SUPPRESSION 5-HOLE FERRITE BEAD

SMB5H SERIES



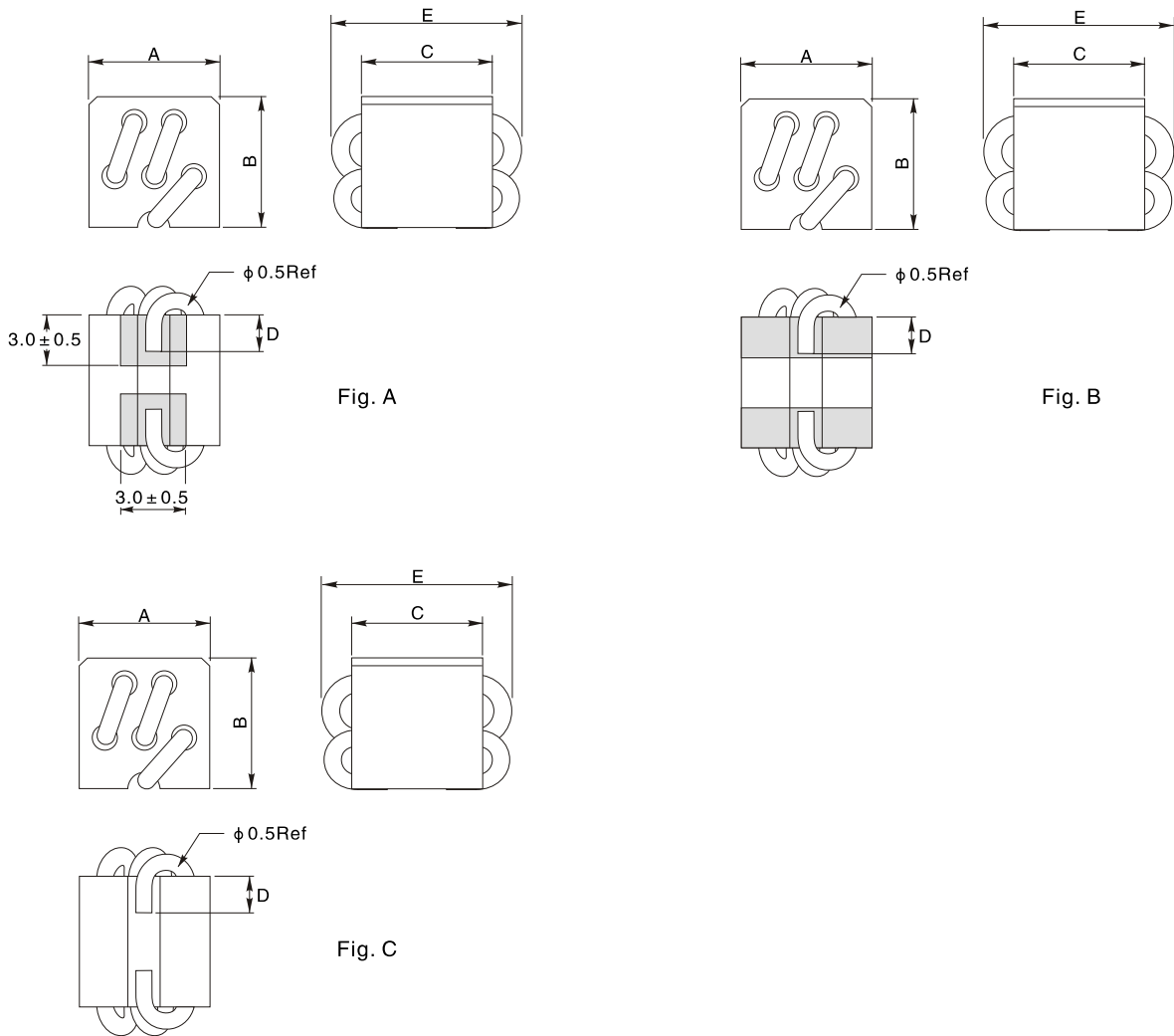
FEATURES:

- High Current rating
- Low DCR and high IDC beads inductor
- Compact and simple design with high reliability
- Very good SMD solution for traditional wide band choke
- Through-hole axial ferrite beads for EMI suppression
- Surface-mount wire wound beads with high frequency and EMI suppression

APPLCATIONS:

- Modems, PDP, LCD, and TVs converters
- Mobile radios, DC/DC converters
- Noise filtering devices
- Track and SCR control circuits
- Wireless communication equipments
- Computer disk drive and PC board to filter the EMI from outside sources such as car radios, mobile phones and VCRs

DIMENSIONS:(mm)



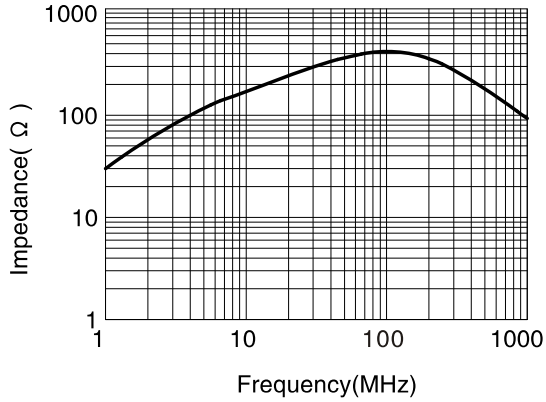
Part No.	A	B	C	D	E	Winding	Fig.
SMB5H0505C-2.5Ts	5.0 ± 0.25	5.0max	5.5 ± 0.3	2.0min	8.0max	φ 0.5mm*2.5Ts	C
SMB5H0505B-2.5Ts	5.0 ± 0.5	4.6 ± 0.5	5.5 ± 0.5	2.0max	8.0max	φ 0.5mm*2.5Ts	B
SMB5H0508C-2.5Ts	5.0 ± 0.25	5.0max	8.5 ± 0.3	3.5max	11.0max	φ 0.5mm*2.5Ts	C
SMB5H0508B-2.5Ts	5.0 ± 0.5	4.65 ± 0.5	8.5 ± 0.5	2.0 ± 0.5	11.0max	φ 0.5mm*2.5Ts	B
SMB5H0508A-2.5Ts	5.0 ± 0.5	4.65 ± 0.5	8.5 ± 0.5	2.0min	11.0max	φ 0.5mm*2.5Ts	A

SMD EMI SUPPRESSION 5-HOLE FERRITE BEAD

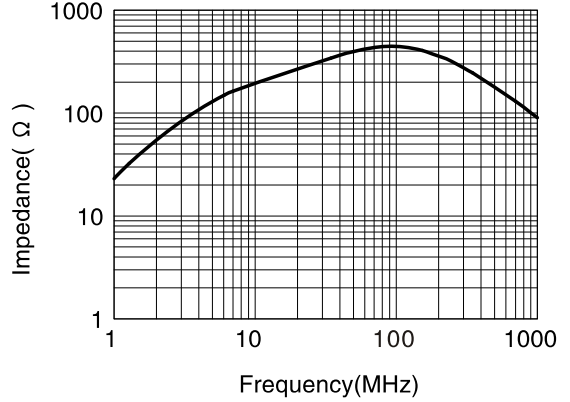
SMB5H SERIES

IMPEDANCE VS FREQUENCY CURVE

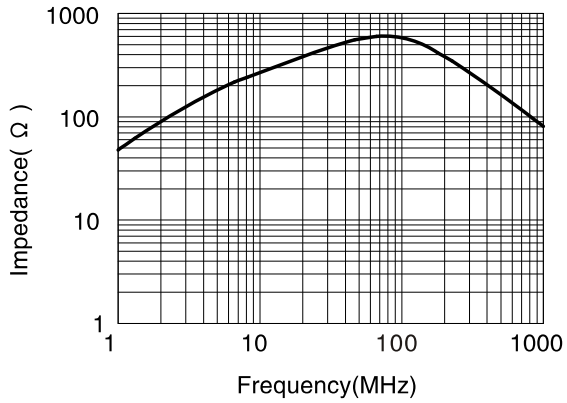
SMB5H0505C-2.5Ts



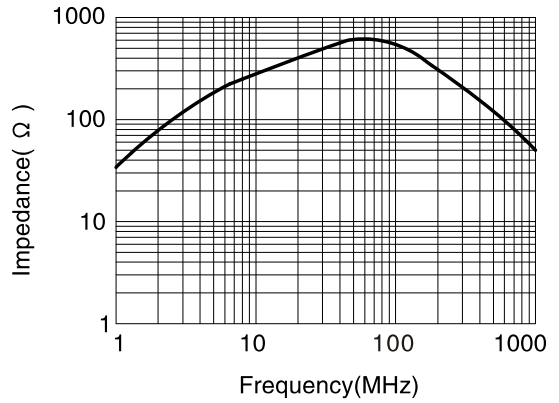
SMB5H0505B-2.5Ts



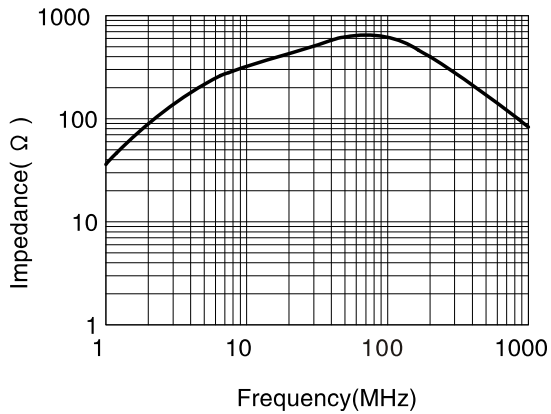
SMB5H0508C-2.5Ts



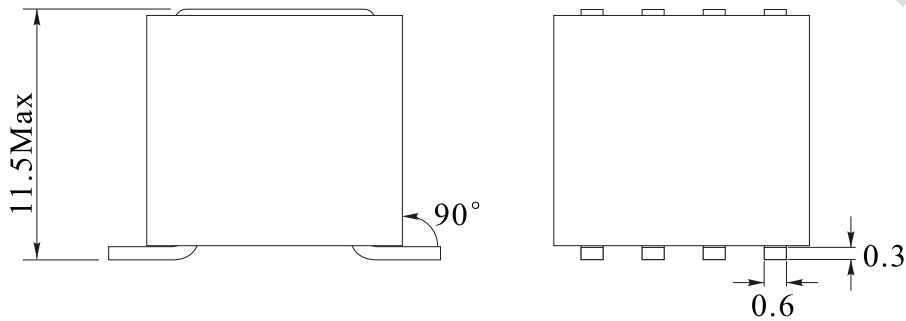
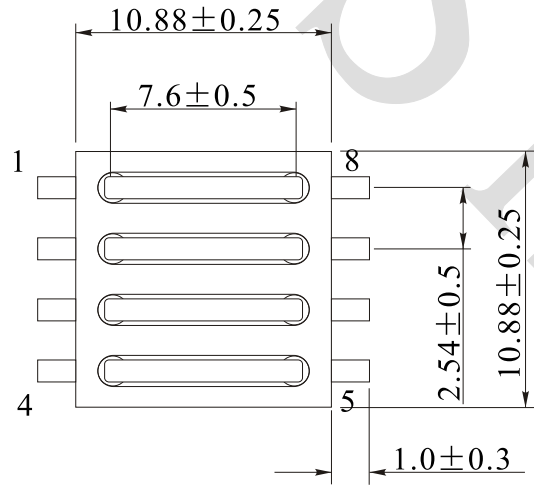
SMB5H0508B-2.5Ts



SMB5H0508A-2.5Ts

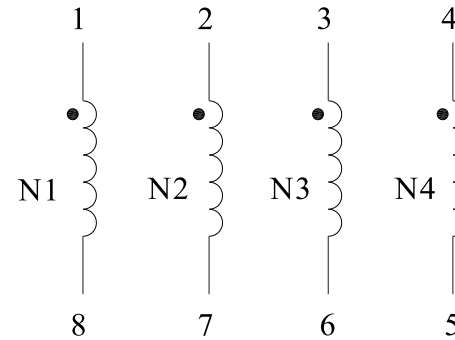


1. PHYSICAL CHARACTERISTICS(mm)



Remark : 1.Pin Angle is 90°
2.Ferrite bead bottom is flat

2.ELECTRONICAL SCHEMATIC



3.ELECTRONICAL SPECIFICATIONS

Impedance: 115 Ω Min@25MHz
170 Ω Min@100MHz

DCR: 15mΩ Max

Rated voltage: 50V Max

Max. Current: 6.0A

Test Instrument:

/Z/: HP4291A

RDC: HM2540

NOTES:

Temp 20°C 48%RH
RoHS Compliant

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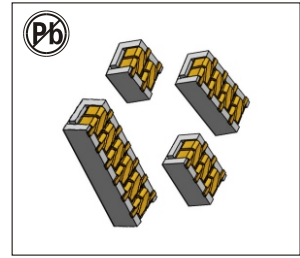
NAME:	SMD Ferrite bead array		
CUSTOMER P/N:		DATE:	2014-06-03
SHINHOM P/N:	SMB1010-4W	REV: A1	PAGE
DRAWN	CHECKED BY	APPROVE BY	



SHINHOM
SHAANXISHINHOM ENTERPRISE CO LTD

MULTI-PHASE POWER INDUCTORS

SMBXX1208 SERIES



FEATURES:

- High current multi-phase inductor
- 100 nH per phase coupled inductor
- 12 mm wide x 8.5 mm high footprint surface mount package with 12.5 mm, 18.5 mm, 24.5 mm and 36.5 mm lengths
- Ferrite core material
- Moisture Sensitivity Level (MSL): 1

APPLICATIONS:

- For exclusive use with Maxim? Multi-phase controllers
- Voltage Regulator Modules (VRMs) and high power density VRMs
- Server and desktop
- Central processing unit (CPU)
- Graphics processing unit (GPU)
- Application specific integrated circuit (ASIC)
- Data networking and storage systems
- High current Point-of-Load (POL) modules
- Vcore regulators

ELECTRICAL CHARACTERISTICS:

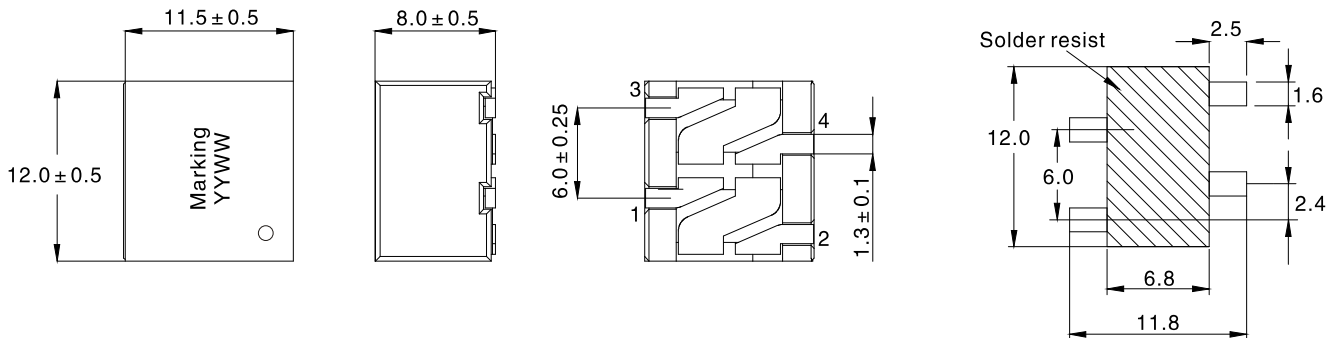
Part Number	Inductance Phases	OCL(uH)		FLL(uH) Min.	Isat 1 (A)	DCR (mΩ)Max	SCL ±20%	Isat 2 (A)	Marking
		Typ.	Min.						
SMD121208-2W-R10M	2	0.4	0.36	0.32	15	0.45	0.1	56	R10
SMD181208-3W-R10M	3	0.4	0.36	0.32	15	0.45	0.1	56	R10
SMD241208-4W-R10M	4	0.4	0.36	0.32	15	0.45	0.1	56	R10
SMD361208-6W-R10M	6	0.4	0.36	0.32	15	0.45	0.1	56	R10

1. Open Circuit Inductance (OCL) Test Parameters: 1.0 MHz/0.1 Vrms, 0.0 Adc, +105°C
2. Full Load Inductance (FLL) Test Parameters: 1.0 MHz/0.1 Vrms, Isat1, +105 °C
3. Short Circuit Inductance (SCL) Test Parameters: 1.0 MHz/0.1 Vrms, 0.0 Adc, +105 °C
 SMD121208-2W-R10M Test :short (1 & 4), measure (2 & 3), and divide by 2
 SMD181208-2W-R10M Test : short (1 & 4), (3 & 6), measure (2 & 5), and divide by 3
 SMD241208-2W-R10M Test : short (1 & 4), (3 & 6), (5 & 8) measure (2 & 7), and divide by 4
 SMD361208-2W-R10M Test :short (1 & 4), (3 & 6), (5 & 8), (7 & 10), (9 & 12) measure (2 & 11), and divide by 6
4. DCR +20 °C TEST, Each winding
5. Isat2: Based on inductance change ($\Delta L/L_0$: drop 20% Typ.) @ +105 °C
6. The specs are guaranteed at room temp as tested in production and other parameters are guaranteed by design.
7. Storage temperature range (Component): -40 °C to +125°C
8. Operating temperature range: -40°C to +125 °C(ambient plus self-temperature rise)
9. Solder reflow temperature: J-STD-020 (latest revision) compliant

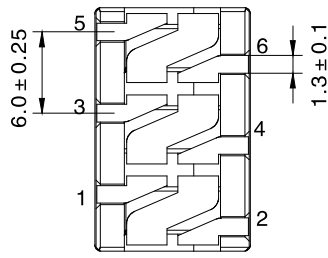
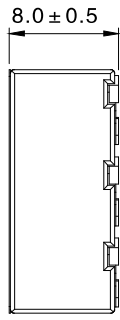
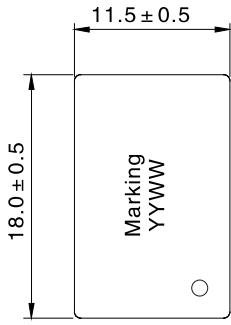
PHYSICAL CHARACTERISTICS

SMD121208-2W-R10M

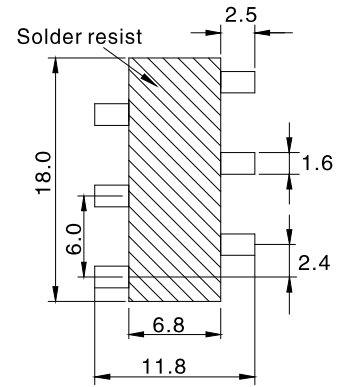
Recommended Pad layout



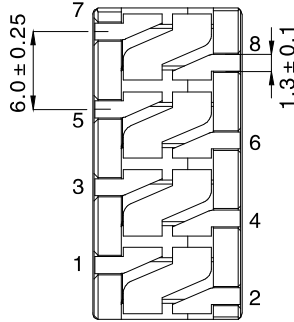
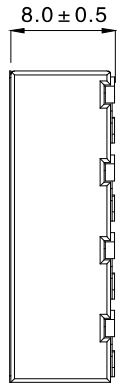
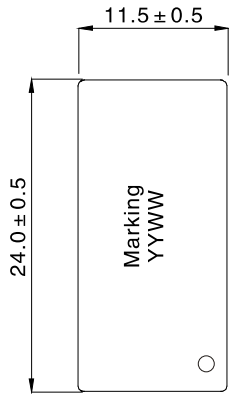
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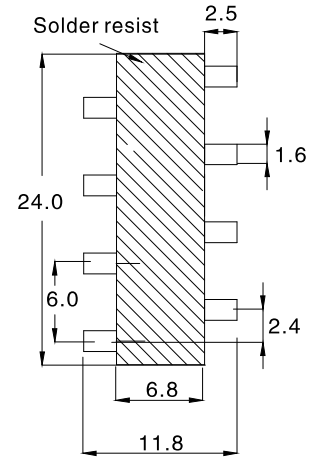
Recommended Pad layout



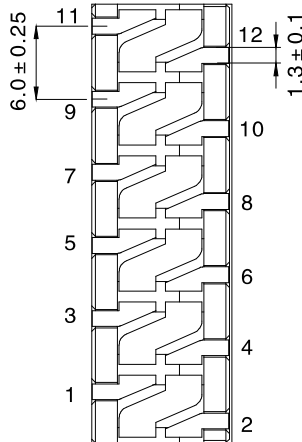
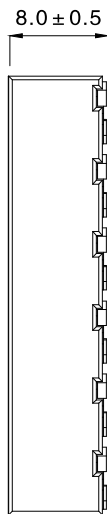
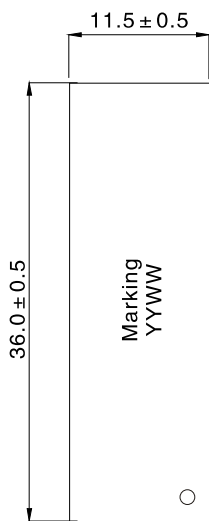
SMD241208-4W-R10M



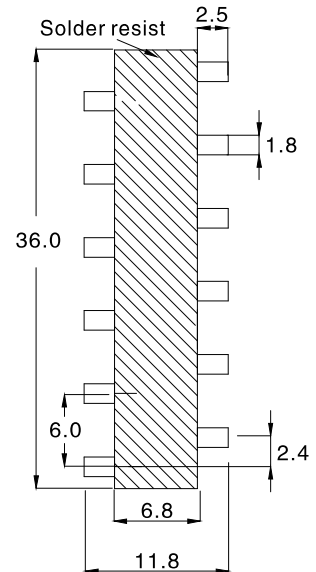
Recommended Pad layout



SMD361208-6W-R10M

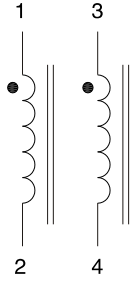


Recommended Pad layout

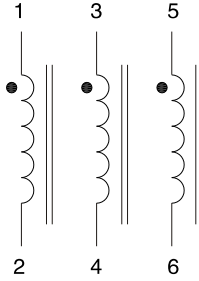


SCHEMATIC

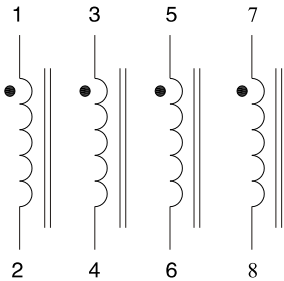
SMD121208-2W-R10M



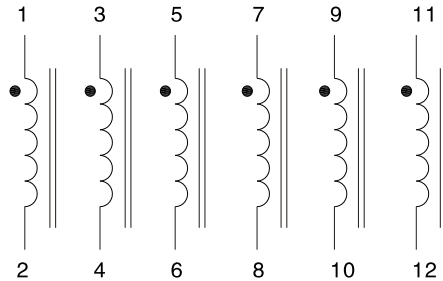
SMD181208-3W-R10M



SMD241208-4W-R10M

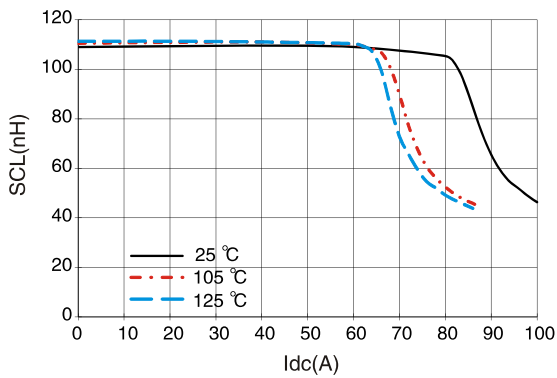


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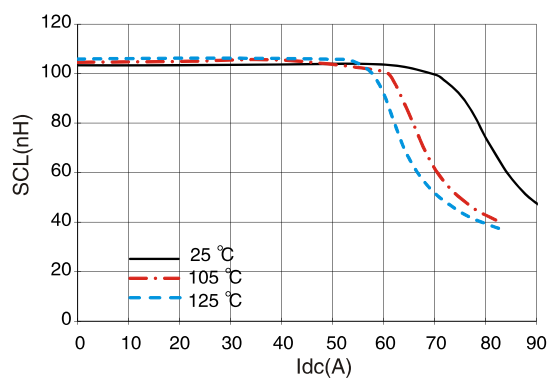


INDUCTANCE CHARACTERISTICS SCL VS. CURRENT

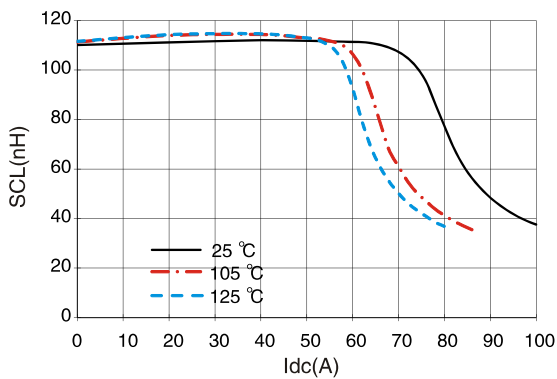
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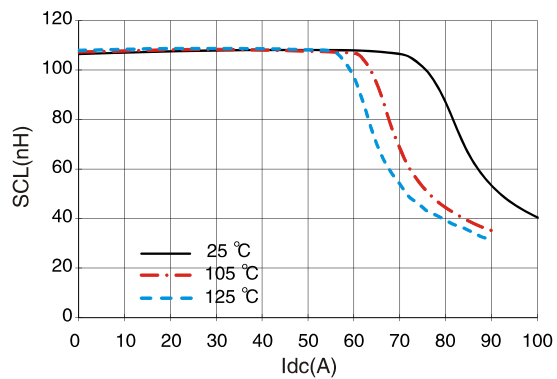
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SMD241208-4W-R10M

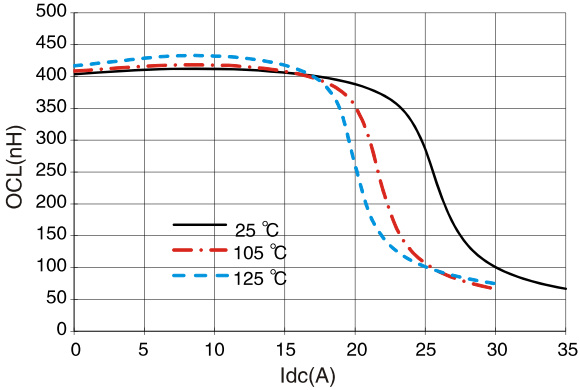


SMD361208-6W-R10M

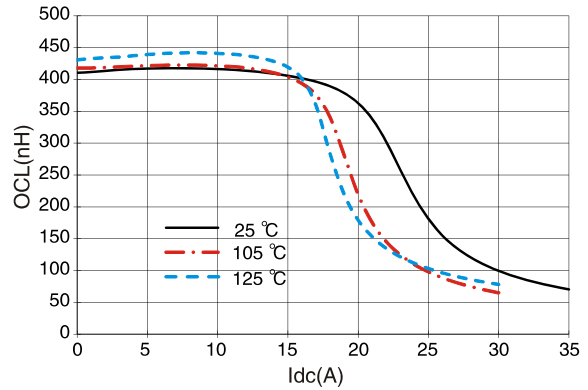


INDUCTANCE CHARACTERISTICS OCL VS. CURRENT

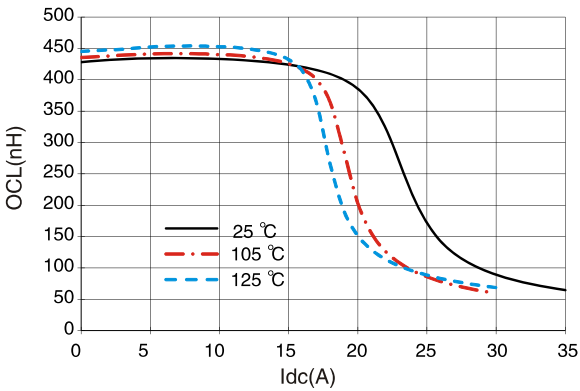
SMD121208-2W-R10M(1-2),(3-4)



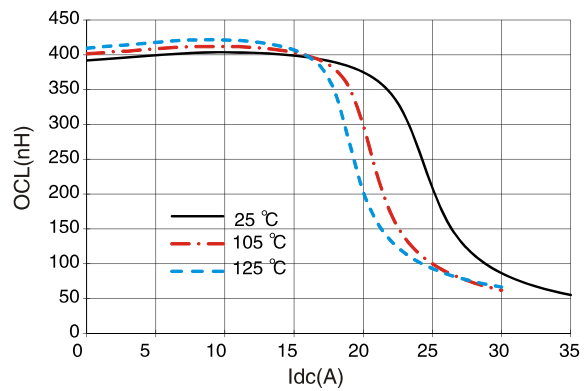
SMD181208-3W-R10M(1-2),(5-6)



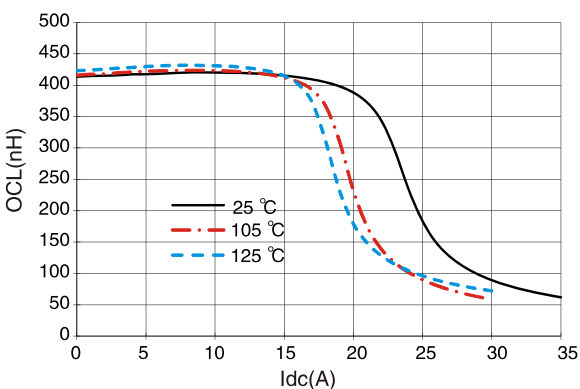
SMD181208-3W-R10M(3-4)



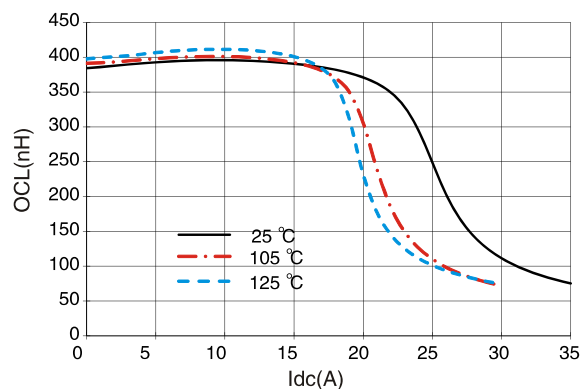
SMD241208-4W-R10M(1-2),(7-8)



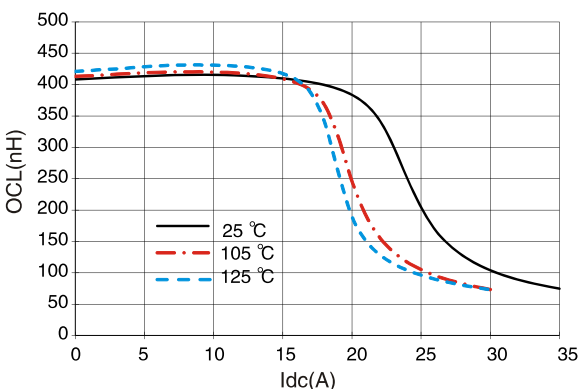
SMD241208-4W-R10M(3-4),(5-6)



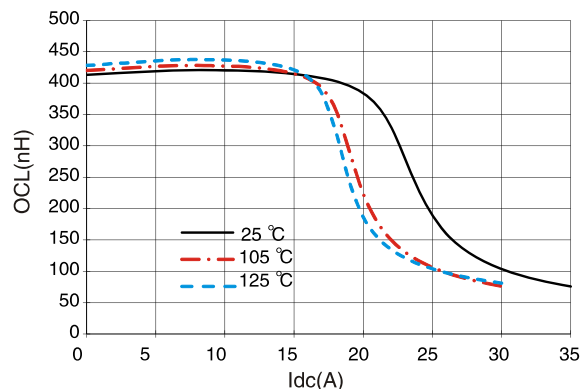
SMD361208-6W-R10M(1-2),(11-12)



SMD361208-6W-R10M(3-4),(9-10)



SMD361208-6W-R10M(5-6),(7-8)



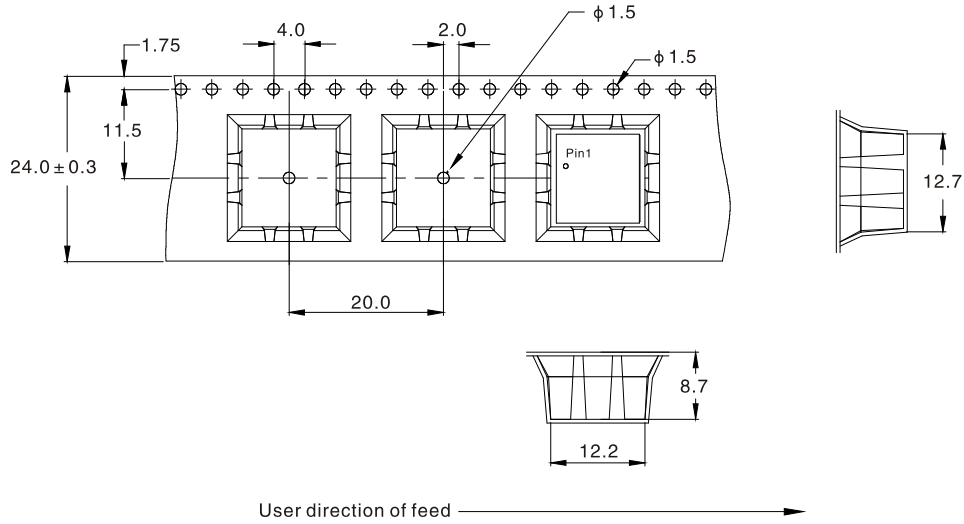
PACKAGING INFORMATION

SMD121208-2W-R10M

Supplied in tape and reel packaging on a 13" diameter reel

Drawing not to scale

300 parts per reel

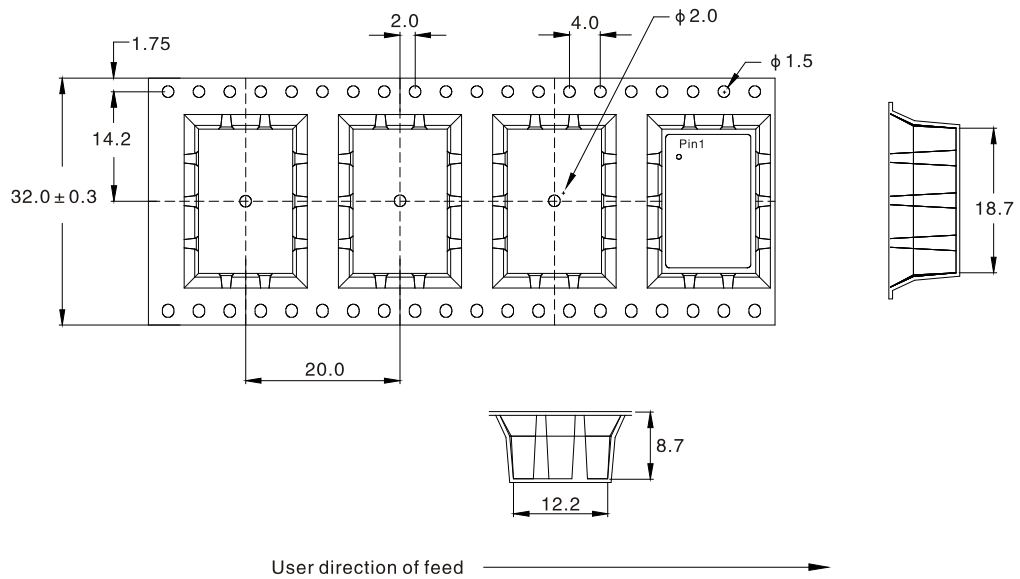


SMD181208-3W-R10M

Supplied in tape and reel packaging on a 13" diameter reel

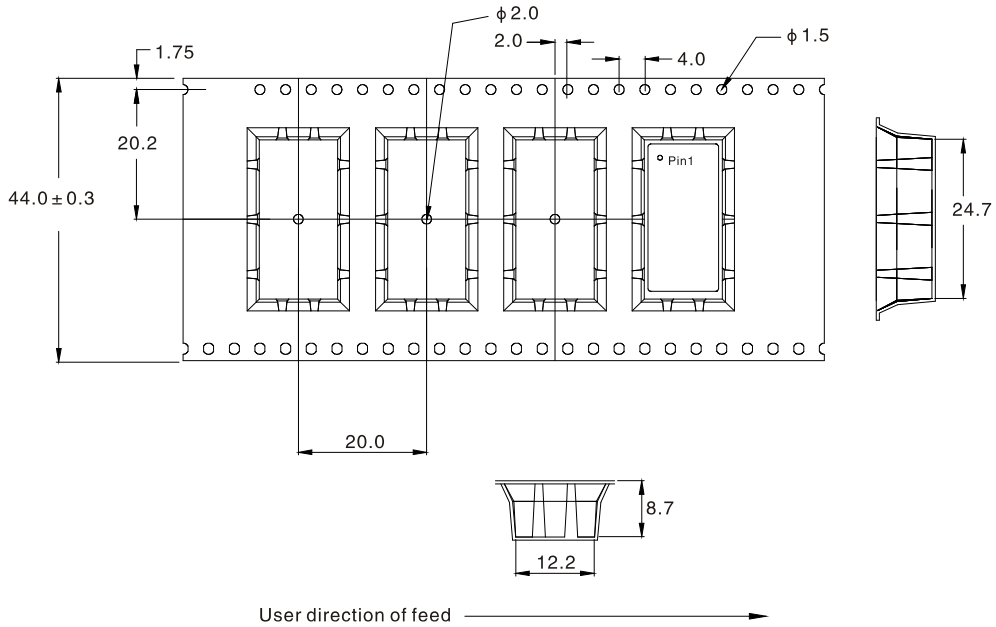
Drawing not to scale

300 parts per reel



PACKAGING INFORMATION

SMD241208-4W-R10M
 Supplied in tape and reel packaging on a 13" diameter reel
 Drawing not to scale
 200 parts per reel



SMD361208-6W-R10M
 Supplied in tape and reel packaging on a 13" diameter reel
 Drawing not to scale
 200 parts per reel

