

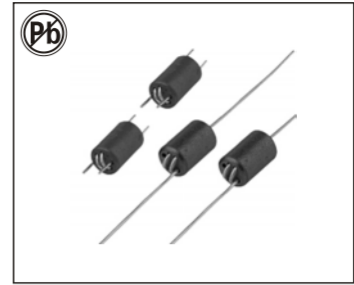
THROUGH-HOLE AXIAL WIDE BAND CHOKES R6H SERIES (01,02,03,04,05,06,07)

FEATURES:

- Regged construction
- Counter measures for FCC,VDE
- CSA,CE,VCC1
- EMI/RFI suppression
- High reliability
- Long term stability

COMMON APPLICATIONS:

- Telecommunication Equipment
- Wireless Communications Equipment
- Computer Products
- General Electronic Applications where EMI/RFI suppression is required



ELECTRICAL CHARACTERISTICS:

Part Number	Number of Turns	Impedance @ 25MHz	Impedance @ 100MHz
R6H-01	1.5	300	500
R6H-02	2.0	400	600
R6H-03	2.5	600	800
R6H-04	2.5	500	600
R6H-05	3.0	800	900
R6H-06	3.0	700	600
R6H-07	1.5 × 2	300	500

TECHNICAL INFORMATION:

PHYSICAL CHARACTERISTICS:

CORE	1.5Ts	2Ts	2.5Ts	3Ts	2 × 1.5Ts

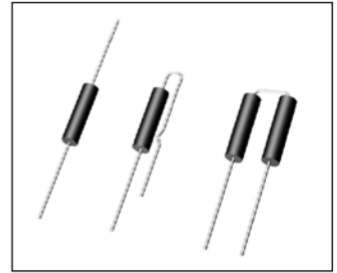
Ferrite core TYPE	A	B	C	D
R6H 6 × 10	6.0 ± 0.25	10.0 ± 0.30	0.75 ± 0.15	3.5 ref

• Testing:(Equivalent acceptable)
HP4191A Impedance Analyzer

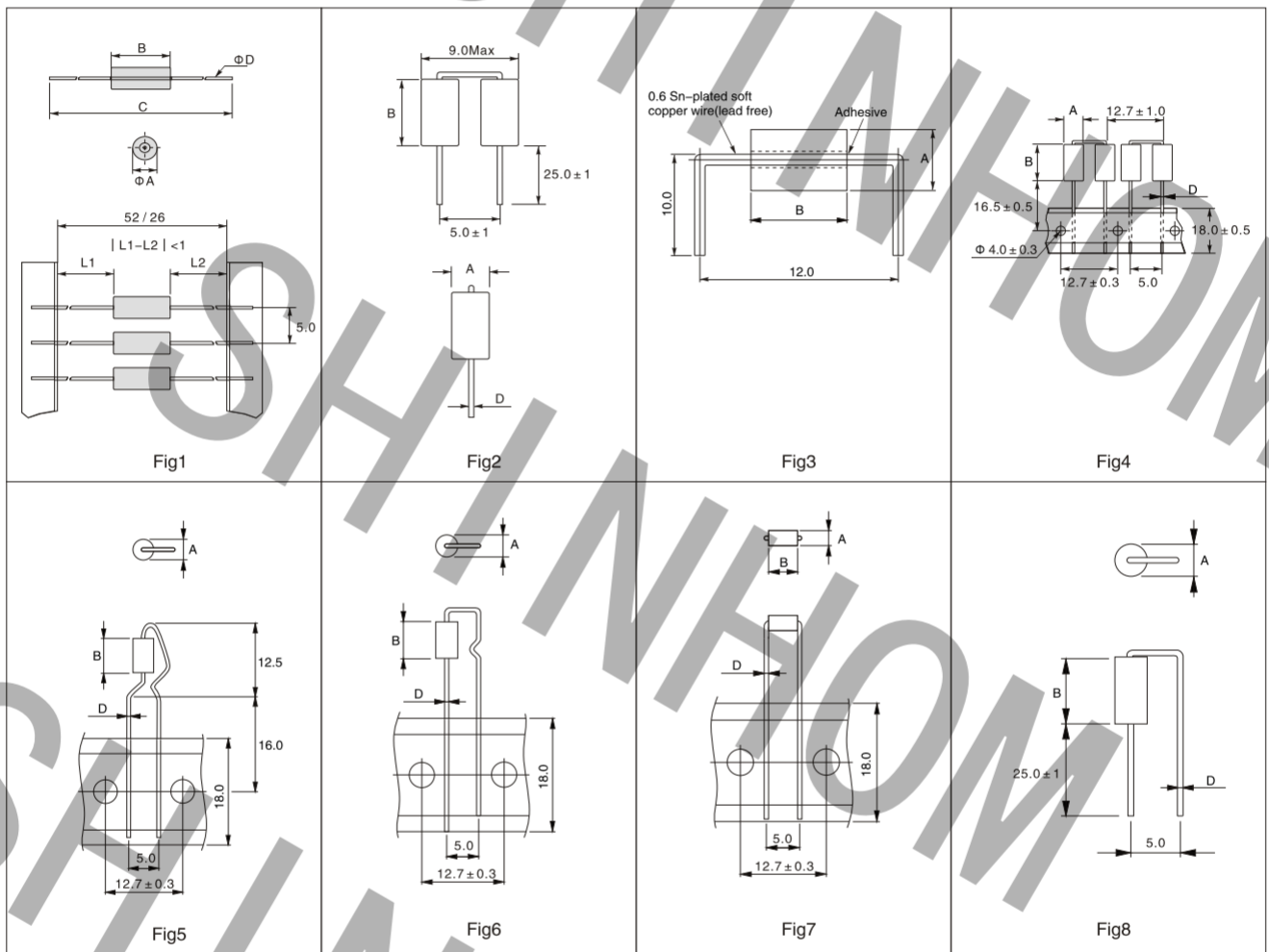
BEAD CORES,RADIAL TAPPING & BULK TYPE(RH)

Ordering code

RH - 35 30 (Fig 1)
 B Size
 A Size
 Type code



CONFIGURATIONS(mm)



DIMENSION OF MAIN PRODUCTIONS & IMPEDANCE@25°C

Part Number	A	B	C	D	Impedance @25MHz (Ω)Min	Impedance @100MHz (Ω)Min
RH-3530	3.5±0.2	3.0±0.3	62±2.0	0.6	25	40
RH-3545	3.5±0.2	4.5±0.3	62±2.0	0.6	30	60
RH-3547	3.5±0.2	4.7±0.3	62±2.0	0.6	35	60
RH-3560	3.5±0.2	6.0±0.3	62±2.0	0.6	50	75
RH-3575	3.5±0.2	7.5±0.3	62±2.0	0.6	60	90
RH-3580	3.5±0.2	8.0±0.3	62±2.0	0.6	60	100
RH-3590	3.5±0.2	9.0±0.3	62±2.0	0.6	80	120
RH-3512	3.5±0.2	12±0.3	62±2.0	0.6	30	130
RH-3514	3.5±0.2	14±0.3	62±2.0	0.6	50	150

Remarks: Other sizes are available upon request if your needs not listed in the catalog

COILFORM(SLUG CORE WITH LEADS) (RWW)

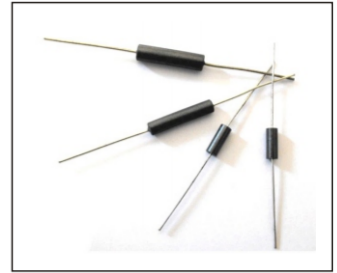
Ordering code

RWW 4 X 15

└── B Size

└── A Size

└── Type code



CONFIGURATIONS(mm)



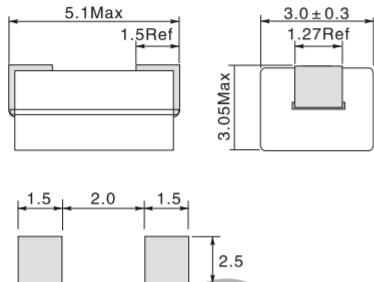
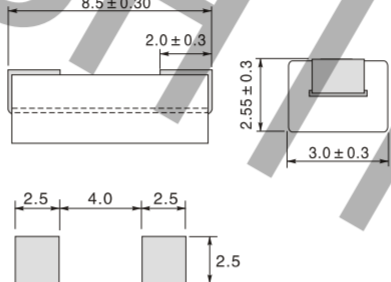
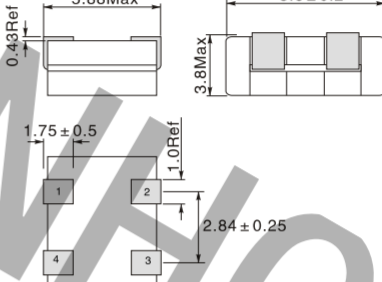
DIMENSION OF MAIN PRODUCTIONS & IMPEDANCE@25°C

Part No.	A	B
RWW1.6X2.0	1.6±0.1	2.0±0.3
RWW2.3X4	2.3±0.1	4.0±0.3
RWW2.8X10	2.8±0.1	10.0±0.3
RWW3X6.0	3.0±0.15	6.0±0.3
RWW3X10	3.0±0.15	10.0±0.3
RWW3.5X10	3.5±0.15	10.0±0.3
RWW4X10	4.0±0.15	10.0±0.3
RWW4X15	4.0±0.15	15.0±0.4
RWW5X15	5.0±0.2	15.0±0.5
RWW5X19.5	5.0±0.2	19.5±0.6
RWW6X20	6.0±0.2	20.0±0.6
RWW6X25	6.0±0.2	25.0±0.8
RWW6X30	6.0±0.2	30.0±0.8
RWW6.35X31.75	6.35±0.2	31.75±1
RWW8X30	8.0±0.3	30.0±0.8

Remarks: Other sizes are available upon request if your needs not listed in the catalog

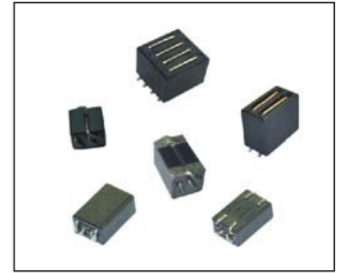
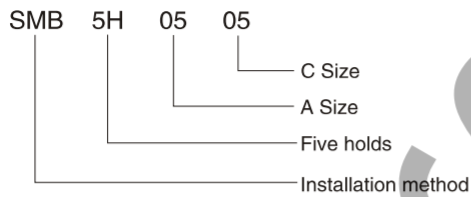
HIGH CURRENT FERRITE BEADS FOR EMI SUPPRESSION (SMB SERIES)

Type

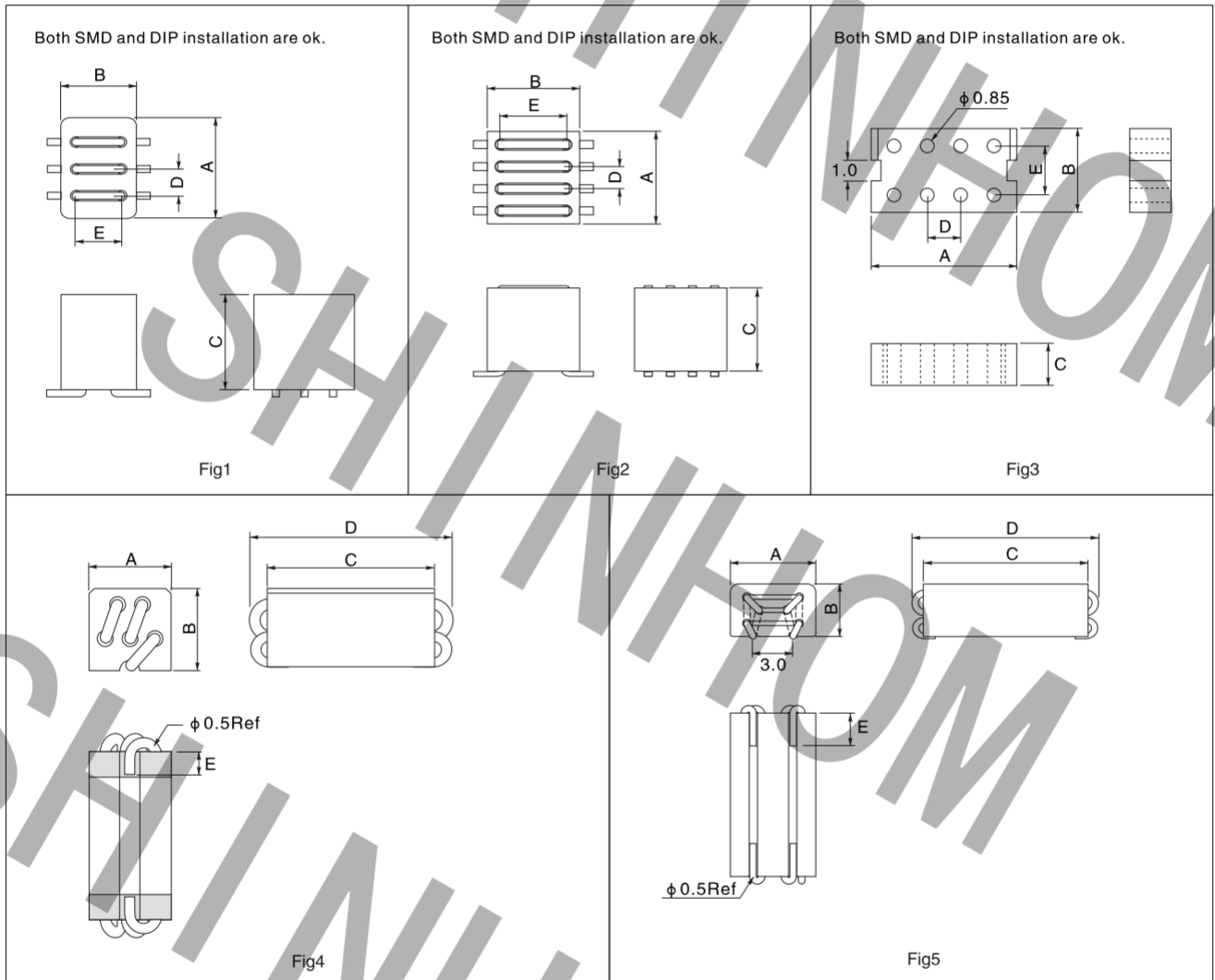
Type	 SMB403025-45	Type	 SMB853025-75	Type	 SMB564725-25
Z@25MHz	30Ω Min	Z@25MHz	50Ω Min	Z@25MHz	15Ω Min
Z@100MHz	49Ω Min	Z@100MHz	76Ω Min	Z@100MHz	25Ω Min
Rated current	9A max.	Rated current	5A max.	Rated current	15A max.
  					

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 POWER BEAD

SMB4B SERIES

FEATURES:

- Small size, high current, high performance.
- Low DCR, excellent EMI suppression capability.
- Suitable for surface mounting equipment.

COMMON APPLICATIONS:

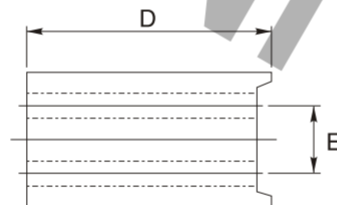
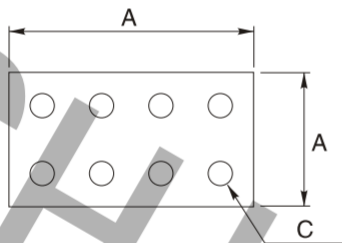
- VTR, digital set-top box, LCD Monitor
- DC/DC converters, xDSL
- Wireless communication equipment



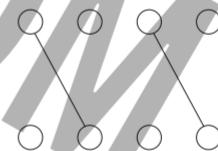
ELECTRICAL CHARACTERISTICS: 25°C

Part Number	Impedance 25MHz (Min)	Impedance 100MHz (Min)
SMB4B1155-141	140	255
SMB4B1111H-201	200	240
SMB4B1111H-2T-451	450	550
SMB4B1111H-3T-801	800	850
SMB4B1111L-121	125	210
SMB4B1111L-2T-281	280	450
SMB4B1111L-3T-551	550	800

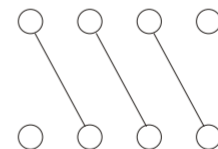
PHYSICAL CHARACTERISTICS & TYPE



TYPE: SMB4B-2T



TYPE: SMB4B-3T



Part No.	A	B	C	D	E
SMB4B1155	11 ± 0.3	5.5 ± 0.25	0.65REF	10.5 ± 0.3	2.54REF
SMB4B1111H	11 ± 0.15	11 ± 0.2	0.7REF	10.5 ± 0.3	2.54REF
SMB4B1111L	11 ± 0.15	11 ± 0.2	0.7REF	6.5 ± 0.3	2.54REF

Note:

1. The parameters of list are typical, atypical parameters can be customized according to customer's requirements.
2. Operating temperature: -40°C to 105°C

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

APPLICATIONS:

- 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)

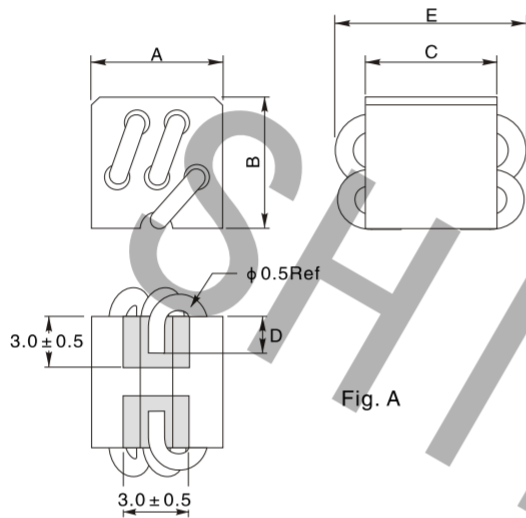


Fig. A

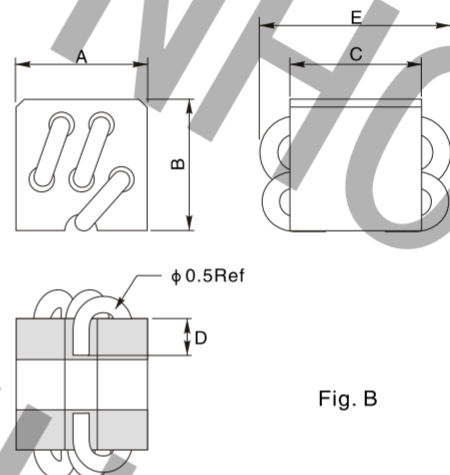


Fig. B

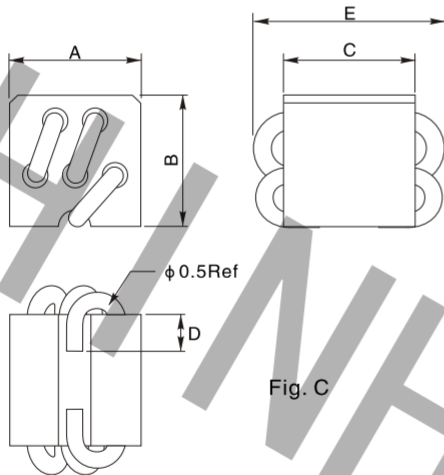


Fig. C

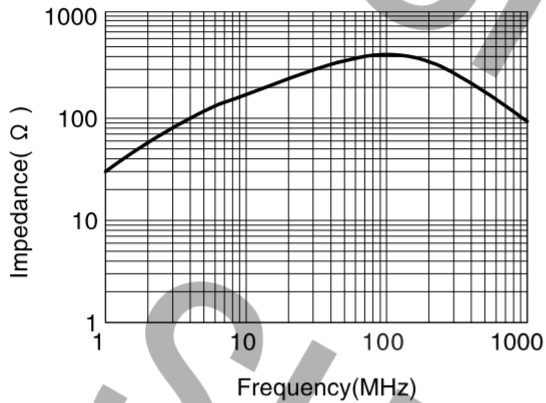
Part No.	A	B	C	D	E	Winding	Fig.
SMB5H0505C-2.5Ts	5.0±0.25	5.0max	5.5±0.3	2.0min	8.0max	φ 0.5mm*2.5Ts	C
SMB5H0505B-2.5Ts	5.0±0.5	4.6±0.5	5.5±0.5	2.0max	8.0max	φ 0.5mm*2.5Ts	B
SMB5H0508C-2.5Ts	5.0±0.25	5.0max	8.5±0.3	3.5max	11.0max	φ 0.5mm*2.5Ts	C
SMB5H0508B-2.5Ts	5.0±0.5	4.65±0.5	8.5±0.5	2.0±0.5	11.0max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

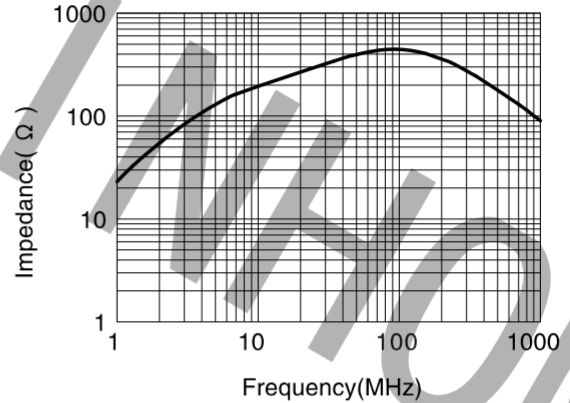
SMB5H SERIES

IMPEDANCE VS FREQUENCY CURVE

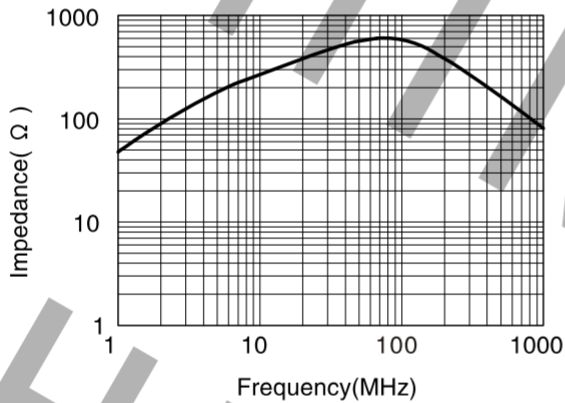
SMB5H0505C-2.5Ts



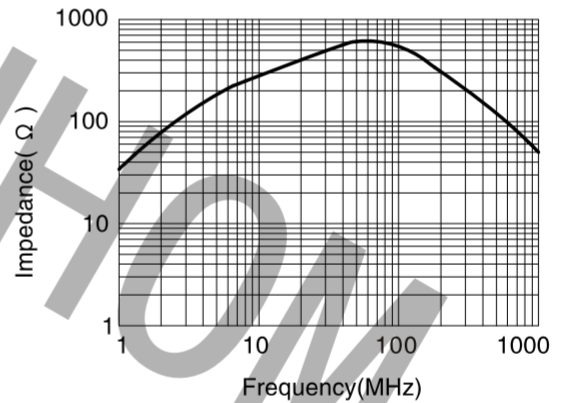
SMB5H0505B-2.5Ts



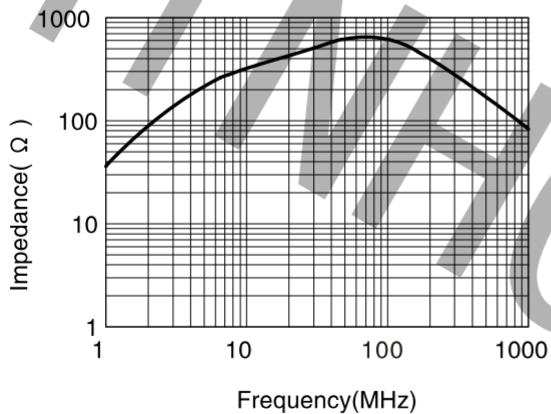
SMB5H0508C-2.5Ts



SMB5H0508B-2.5Ts

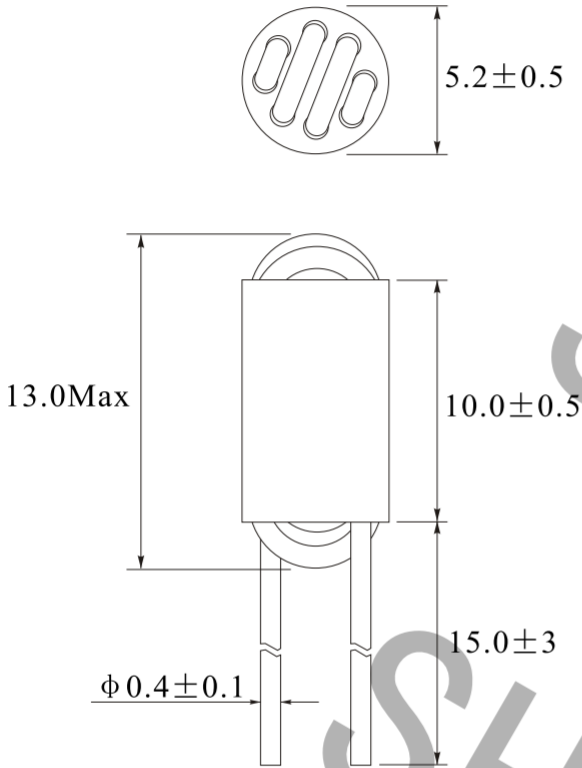


SMB5H0508A-2.5Ts



Rev.	Description	Date
A0	New release	2024.08.01

1. PHYSICAL CHARACTERISTICS(mm)



Note:

- 1.Solderability:leads shall meet MIL-STD-202, Method 208D for solderability.
- 2.Flammability: UL94V-0
- 3.ASTM oxygen index: >28%

2. ELECTRICAL CHARACTERISTICS

Impedance: 650Ω Min@25MHz
900Ω Min@100MHz

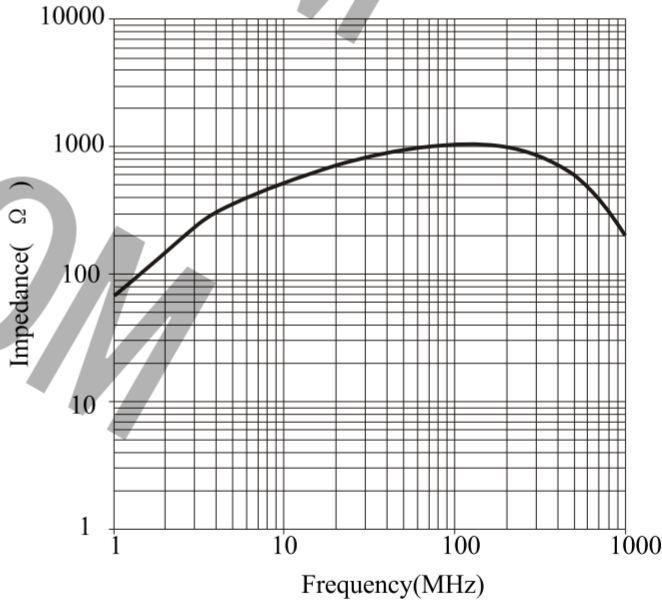
DCR: 20mΩ Max

Rated current: 2A

Max current: 4A

Operating temperature: -40℃ to +125℃

Storage temperature: -10℃ to +80℃



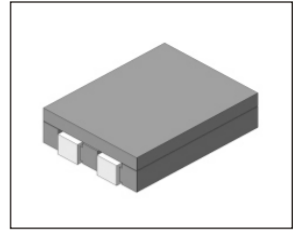
NAME:	8-Hole ferrite beads		
CUSTOMER P/N:		DATE:	2024-08-01
SHINHOM P/N:	R8H-4TS	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	



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SMT Couple Inductor SMB Series



Features

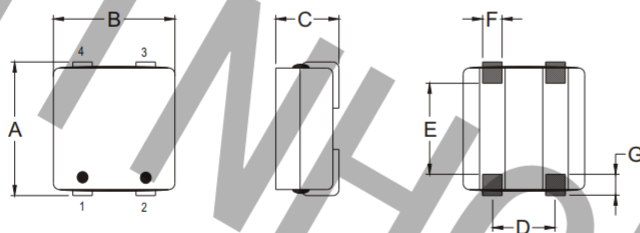
- RoHS compliant.
- Low profile, SMD type.
- High current.
- Magnetic shielded.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.

ELECTRICAL CHARACTERISTICS:

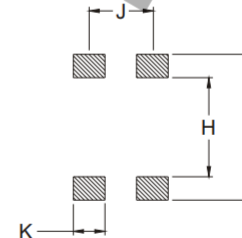
PART NO.	L ¹ (nH)	L @ Isat1 (nH)	2*Lk ² (nH)	2*Lk @ Isat2 (nH)	DCR (mΩ)	Isat1 ³ (Adc)	Isat2 ⁴ (Adc)
SMB0620B-800	80 ± 20%	64 ± 20%	45 ± 20%	32 MIN.	0.53 ± 10%	15	50
SMB0620B-101	100 ± 20%	80 ± 20%	55 ± 20%	40 MIN.	0.53 ± 10%	12	40
SMB0620B-141	140 ± 20%	112 ± 20%	80 ± 20%	56 MIN.	0.53 ± 10%	8	30
SMB0630B-151	150 ± 20%	120 ± 20%	85 ± 20%	80 MIN.	0.53 ± 10%	15	30
SMB1040B-R15	150 ± 20%	120 MIN.	150 ± 20%	/	0.30 ± 10%	38	/
SMB1040B-R30	300 ± 20%	224 ± 20%	180 ± 20%	144 MIN.	0.30 ± 10%	21	40
SMB1350B-R20H	200 ± 20%	160 MIN.	120 ± 20%	96 MIN.	0.245 ± 10%	24	50
SMB1375B-OR3	300 ± 20%	240 MIN.	200 ± 20%	/	0.43 ± 10%	55	/
SMB1440B-OR3	300 ± 20%	240 MIN.	180 ± 20%	144 MIN.	0.49 ± 10%	26	60
SMB1440B-R36	360 ± 20%	300 MIN.	200 ± 20%	160 MIN.	0.49 ± 10%	20	55
SMB1480BW-OR3	300 ± 20%	240 MIN.	200 ± 20%	/	0.18 ± 10%	50	/
SMB1490B-R42	420 ± 20%	336 ± 20%	280 ± 20%	/	0.53 ± 10%	55	/
SMB1740B-R31	310 ± 20%	300 ± 20%	168 ± 20%	168 ± 20%	0.38 ± 10%	21	35
SMB1970B-R42	420 ± 20%	336 MIN.	280 ± 20%	/	0.45 ± 10%	55	/

1. L is the inductance of each phase (1-4 @ 2,3 open or 2-3 @ 1,4 open) @100KHz, 1V, 25°C.
2. 2*Lk is two times of leakage inductance (1-2 @ 4,3 short)
3. Isat1 is the DC current which cause the L drop to L @ Isat1.(The unbalance current of both phase should smaller than Isat1.)
4. Isat2 is the DC current which cause the 2*Lk drop to 2*Lk @ Isat2.
5. Operating temperature : -40°C to 125°C (including self-temperature rise).

DIMENSIONS(mm) :



RECOMMENDED PAD PATTERNS



UNIT : mm

SERIES	A	B	C (MAX)	D±0.5	E±1.0	F±0.2	G±0.5	H	I	J	K
SMB0620B	7.0 ± 0.5	6.0 ± 0.5	2.0	2.5	4.0	1.5	1.5	3.0	8.00	2.5	2.0
SMB0630B	7.0 ± 0.5	6.0 ± 0.5	3.0	2.5	4.0	1.5	1.5	3.0	8.00	2.5	2.0
SMB1040B	10.5 ± 1.0	10.0 ± 0.5	4.0	4.1	6.0	2.0	2.5	5.0	12.00	4.1	2.5
SMB1350B	12.7 MAX.	12.05 MAX.	5.0	5.3	9.3	3.0	1.5	8.8	13.20	5.3	3.8
SMB1375B	13.0 ± 0.5	13.0 ± 0.5	7.8	4.1	8.0	2.0	2.5	7.5	14.00	4.1	2.5
SMB1440B	14.0 MAX.	10.0 ± 0.5	4.0	4.1	8.0	2.0	2.5	8.4	14.60	4.1	2.5
SMB1480BW	13.0 ± 0.5	17.4 ± 0.5	8.0	6.3	8.0	4.3	2.5	7.5	14.00	6.3	4.8
SMB1490B	14.5 ± 1.0	16.0 ± 0.5	9.0	6.1	9.5	2.0	2.5	9.0	15.50	6.1	2.5
SMB1740B	17.0 ± 1.0	10.0 ± 0.5	4.0	4.2	13.0	2.4	2.0	11.4	19.05	4.2	3.6
SMB1970B	19.7 ± 1.0	13.5 ± 0.5	7.0	5.3	13.5	2.2	3.0	12.5	20.70	5.3	2.7