

High Reliability Surface Mount Ferrite Bead HRBSM3812S450 (Differential Mode)



Features

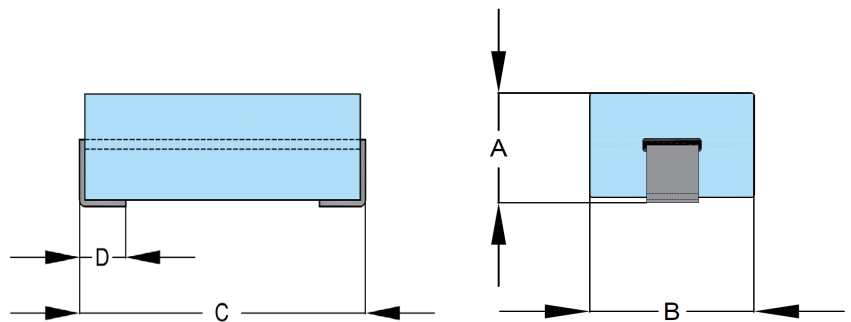
- Oxygen free high conductivity copper and Tin/Lead (Sn/Pb) solder plated terminals.
- Rugged construction with low DC resistance and increased current carrying capacity.
- Terminations are Tin/Lead (Sn/Pb) solder plating over Nickel (Ni) underplating.
- High Reliability with complete material and process traceability.
- Available with DLA 03024 group A, B data are supplied with each shipment.
- Group C inspection data is optional.

Applications

- Satellite/Spacecraft
- Aerospace
- Avionics
- Military
- Telecom DC/DC power
- Drones
- Battery and BMS
- PDU

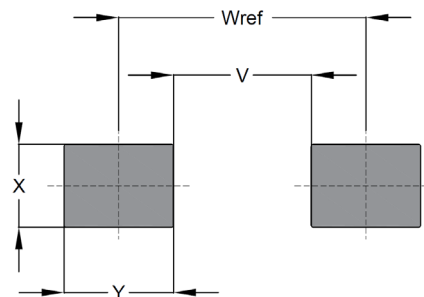
Product Dimensions

Dimension	mm	mm Tol.	Nominal Inch	Inch Misc
A	3.05	Max	0.120	Max
B	3.05	± 0.10	0.12	-
C	9.6	Max	0.378	Max
D	1.50	± 0.50	0.059	-



Land Pattern

Unit	V	W	X	Y
mm	4.50	7.50	1.80	3.00
Inch	0.177	0.295	0.071	0.118

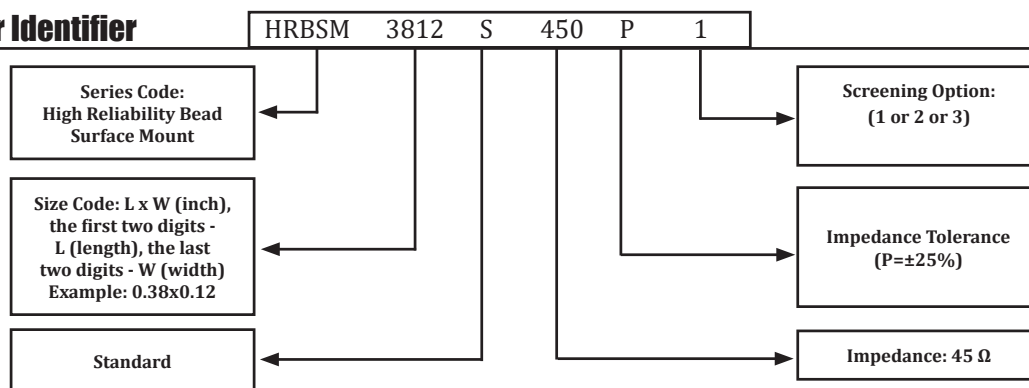


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Electrical Characteristics and General Specification:

Part Number	HRBSM3812S450P	Max. Current Rating (A)	5 AMP
Typical Impedance (Ω)	45@ 10MHz 69@ 25 MHz* 105@ 100 MHz* 111@ 250 MHz	Wire Gauge (AWG)	Flat TCW 1.27(.050)Wx0.2(.008)T
		Storage Temperature ($^{\circ}$ C)	-55 to +125 @RH<55%
		Operating Temperature($^{\circ}$ C)	-55 to +125
		Termination	Tin/Lead over nickel undercoating
Max. RDC (m Ω)	1.2	Ferrite Material	NiZn (43 Material)
Weight (g)	0.3		
Minimum Impedance (Ω)	45 Min. @25 MHz	76 Min. @ 100 MHz	

Part Number Identifier



Standard Screening Options:

- 1- Standard 100% Visual Inspection and electric characteristics (Impedance/DC resistance Read and Record) per DLA 03024.
- 2- Option 2: Group A and B Screening per DLA 03024.
- 3- Option 3: Group A, B, and C Screening per DLA 03024.

Termination :

Tin/Lead (Sn/Pb) solder plating

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Frequency vs. Impedance (Z), Resistance (R), Reactance (XL)

