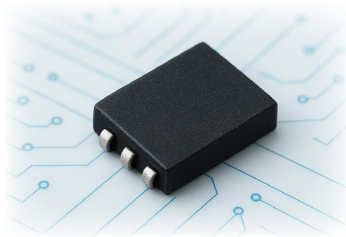


High Reliability Surface Mount Ferrite Bead HRBSM2507S280 (Differential Mode)



Applications

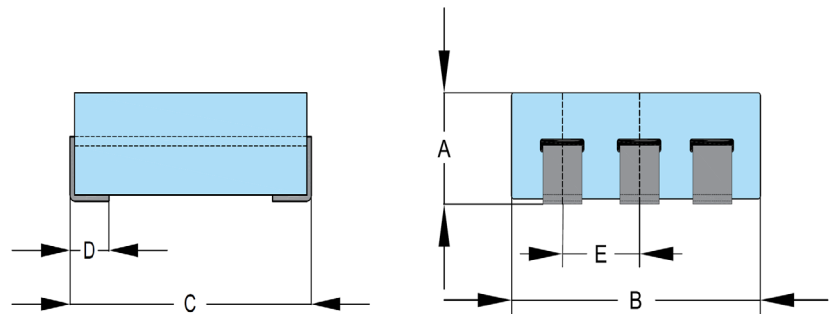
- Satellite/Spacecraft
- Aerospace
- Avionics
- Military
- Telecom DC/DC power
- Drones
- Battery and BMS
- PDU

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.

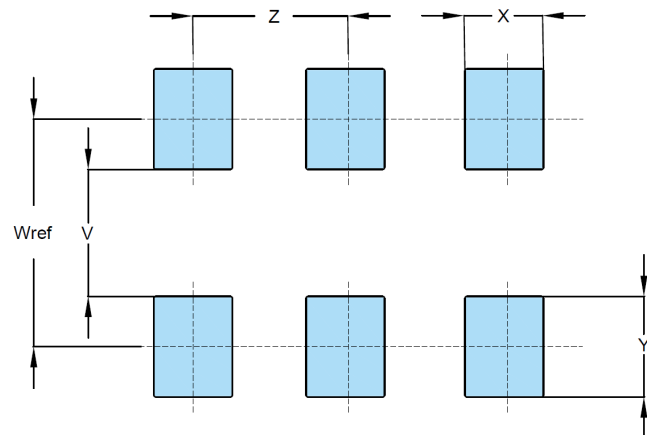
Product Dimensions

Dimension	mm	mm Tol.	Nominal Inch	Inch Misc
A	1.95	Max	0.077	Max
B	4.5	± 0.20	0.177	-
C	6.4	Max	0.252	-
D	1.50	± 0.50	0.059	-
E	1.27	± 0.05	0.05	-



Land Pattern

Unit	V	W	X	Y	Z
mm	1.80	4.80	0.80	3.00	1.27
Inch	0.071	0.189	0.032	0.118	0.050

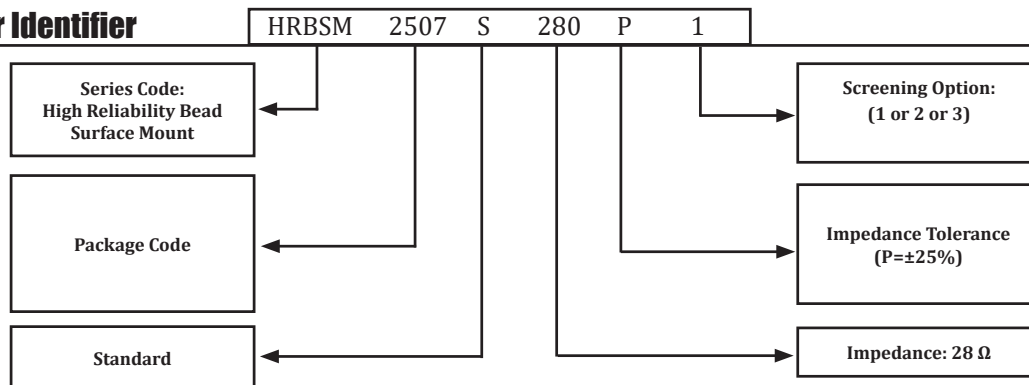


High Reliability Surface Mount Ferrite Bead HRBSM2507S280 (Differential Mode)

Electrical Charactersitics and General Specification:

Part Number	HRBSM2507S280P	Max. Current Rating (A)	5 AMP
Typical Impedance (Ω)	28@ 10MHz 42@ 25 MHz* 63@ 100 MHz* 67@ 250 MHz	Wire Guage (AWG)	Flat TCW 0.5(.020)Wx0.25(.010)T
		Storage Temperature ($^{\circ}\text{C}$)	-55 to +125 @RH<55%
		Operating Temperature($^{\circ}\text{C}$)	-55 to +125
		Termination	Tin/Lead over nickel undercoating
Max. RDC (m Ω)	1.6	Ferrite Material	NiZn (44 Material)
Weight (g)	0.14		
*Minimum Impedance (Ω)	23 Min. @25MHz	45 Min. @100MHz	

Part Number Identifier



Standard Screening Options:

- 1- Standard 100% Visual Inspection and electric characterstics (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

High Reliability Surface Mount Ferrite Bead HRBSM2507S280 (Differential Mode)

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

