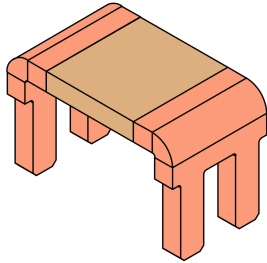




SBE - 3820 Series

Low Ohmic EB Welded SMD Precision Resistor



Features

- 5 Watts Permanent Power
- Constant Current up to 100 amps (0.3 mΩ)
- High Conductivity Copper Connectors
- Excellent Long Term Stability
- High Application Temperature Range -55°C to +170°C
- Max. Solder Temperature up to 350°C / 30Sec
- Flame Resistant
- Solid Metal Construction
- RoHS and REACH Certified

Applications

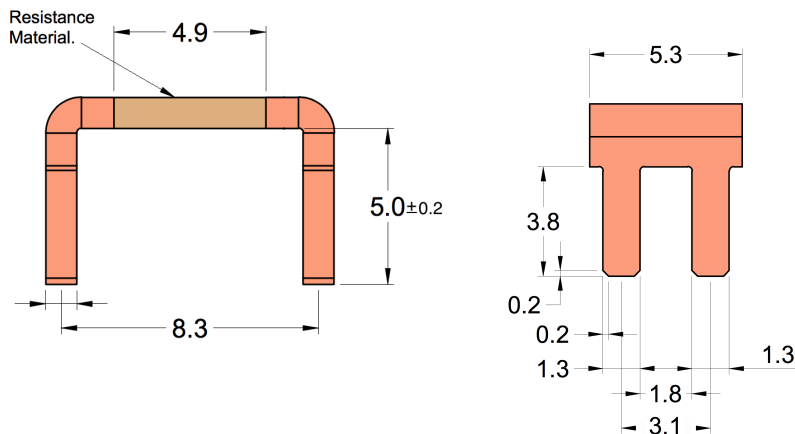
- Current Sensing / Feedback
- Automotive Applications
- Power Modules
- Frequency Convertors
- Inverters
- Low Inductance Applications



Technical Data		
Resistance Values	0.3, 0.5, 1, 2	(mΩ)
Tolerance	1, 3, 5	(%)
TCR - Temperature Coefficient (Resistive Alloy)	< ±10 (Copper Manganese Alloys), < - 25 (Aluchrom Alloy)	(ppm/K)
Applicable Temperature Range	-55 to +170	°C
Load Capacity	See Table 2	-
Inductance	< 3	nH
Stability Deviation	< 0.5 after 2000 Hours, T _i * = 110°C	%
	< 1.0 after 2000 Hours, T _i * = 140°C	%
* T _i = Terminal Temperature		

Note: High Temperature Resistant Insulation (CYG-KYNR) or equivalent can be provided on resistance alloy.

Table 1

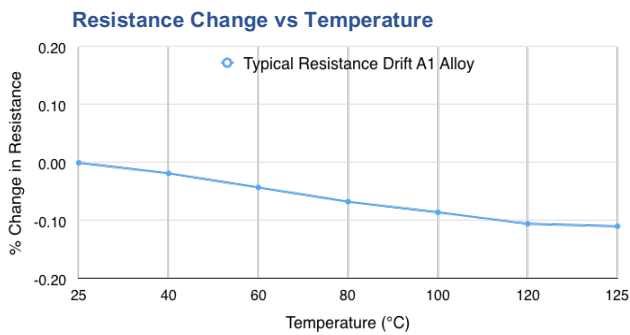
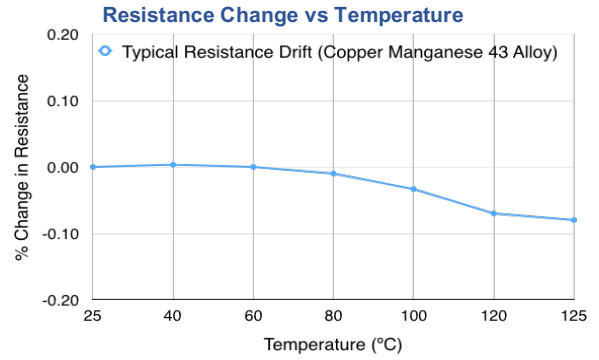
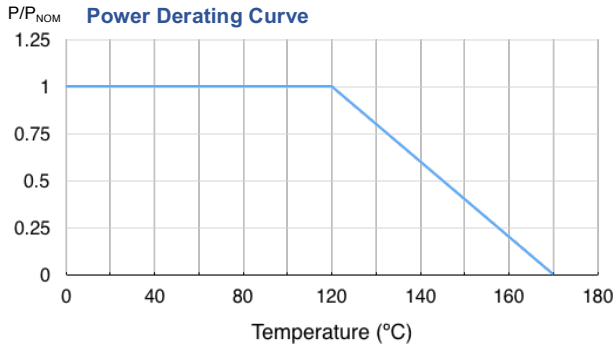


All dimensions are in mm, See table 2 for thickness.



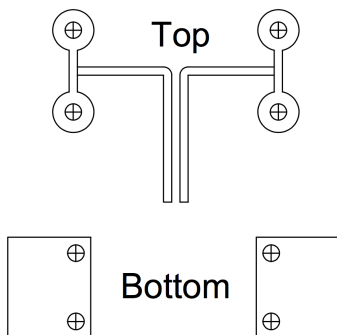
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Type	Resistance Value (mΩ)	Material	t (mm)	TCR (ppm)	P (W)
SBE-CM2	0.3	Copper Manganese 43 Alloy	1.42	<300	5
SBE-CM2	0.5	Copper Manganese 43 Alloy	0.86	<300	5
SBE-A1	1.0	Aluchrom Alloy	1.36	< 100	5
SBE-A1	2.0	Aluchrom Alloy	0.68	< 100	4

Table 2



PCB Layout (Solder Pads) (mm)

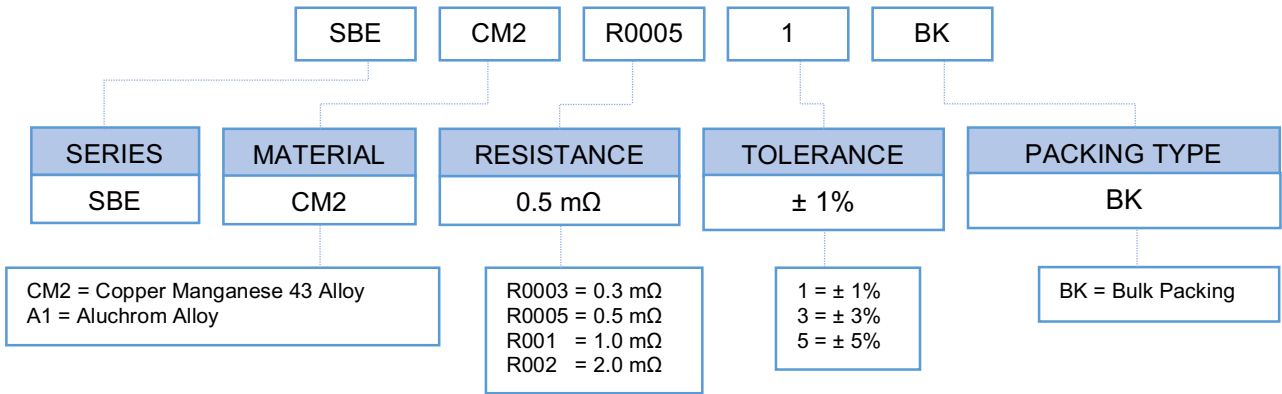


SBE - 3820 Series

Low Ohmic EB Welded SMD Precision Resistor

Example of Ordering Code

SBE-CM2-R0005-1-BK



Packing Specifications

3000 Pieces sealed in Plastic Bags