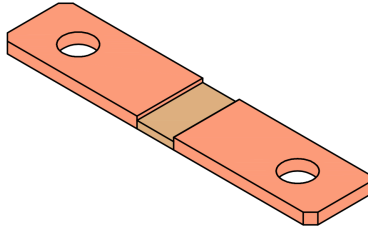




SBZ – 8420 / 8518 Series

Low Ohmic EB Welded Precision Resistor



Features

- High Conductivity Copper Terminals
- Custom made Shunts available
- Excellent Long Term Stability
- Tinned Terminals available on request
- RoHS and REACH Certified

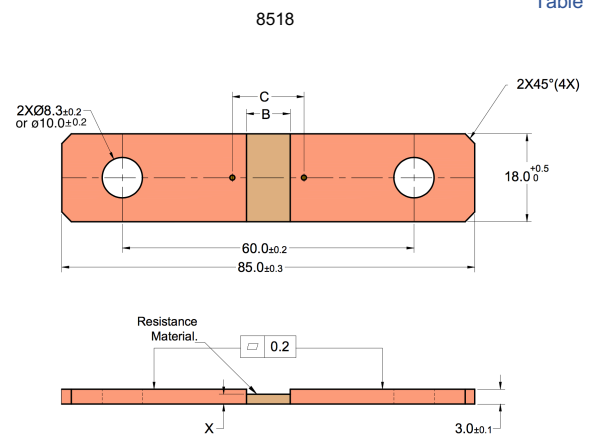
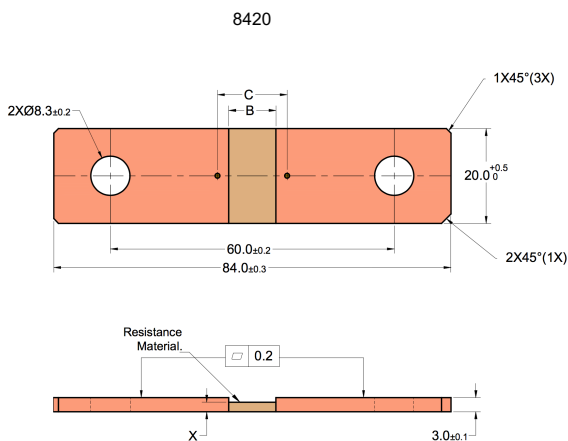
Applications

- Current Sensing for BMS (Battery Management Systems)
- Bus bars and Welding Equipment



Technical Data		
Resistance Values	0.05, 0.1, 0.125, 0.2, 0.25, 0.5, 1.0	(mΩ)
Tolerance	5	(%)
TCR - Temperature Coefficient (Resistive Alloy)	< ±10 (Copper Manganese Alloys), < -25 (Aluchrom Alloy)	(ppm/K)
Applicable Temperature Range	-55 to +170	°C
Power Rating ($P_{70^{\circ}\text{C}}$)	36	W
Inductance	< 1	nH
Stability Deviation	< 0.5 after 2000 Hours, $T_t^* = 110^{\circ}\text{C}$	%
* T_t = Terminal Temperature	< 1.0 after 2000 Hours, $T_t^* = 140^{\circ}\text{C}$	%

Table 1



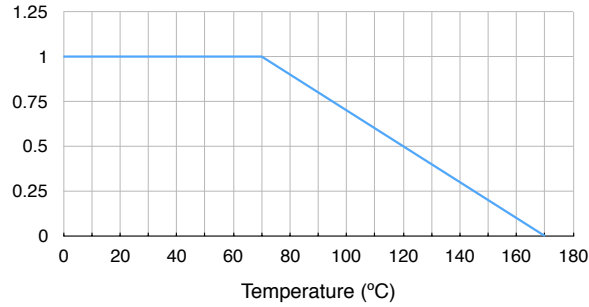
Dimensions are in mm, See table 2 for thickness.



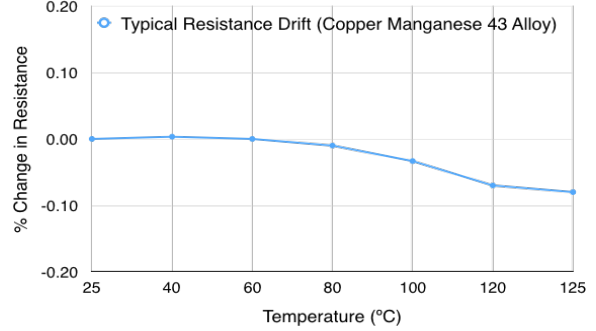
SBZ – 8420 / 8518 Series

Low Ohmic EB Welded Precision Resistor

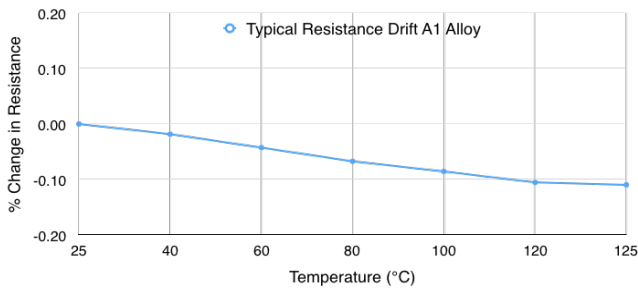
P/P_{NOM} Power Derating Curve



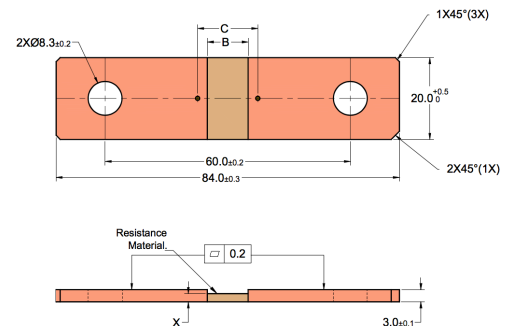
Resistance Change vs Temperature



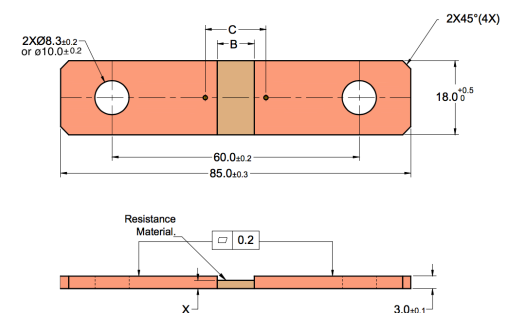
Resistance Change vs Temperature



SBZ 8420					
Resistance Value (mΩ)	Dimension X (+/-0.20)	Dimension B (+/-0.50)	Dimension C (+/-0.20)	Resistance Alloy	Ordering Code
0.05	2.20	5.00	8.20	Copper Manganese 43 Alloy	SBZ-CM2-R00005-8420
0.10	2.20	10.00	13.20	Copper Manganese 43 Alloy	SBZ-CM2-R0001-8420
0.20	2.00	18.00	21.20	Copper Manganese 43 Alloy	SBZ-CM2-R0002-8420
0.25	2.00	23.00	26.20	Copper Manganese 43 Alloy	SBZ-CM2-R00025-8420
0.50	2.00	14.00	17.20	Aluchrom Alloy	SBZ-A1-R0005-8420
1.00	2.00	28.00	31.20	Aluchrom Alloy	SBZ-A1-R001-8420



SBZ 8518					
Resistance Value (mΩ)	Dimension X (+/-0.20)	Dimension B (+/-0.50)	Dimension C (+/-0.20)	Resistance Alloy	Ordering Code
0.05	2.20	4.50	7.70	Copper Manganese 43 Alloy	SBZ-CM2-R00005-8518
0.10	2.20	9.00	12.20	Copper Manganese 43 Alloy	SBZ-CM2-R0001-8518
0.125	2.00	10.30	13.50	Copper Manganese 43 Alloy	SBZ-CM2-R000125-8518
0.20	2.00	16.50	19.70	Copper Manganese 43 Alloy	SBZ-CM2-R0002-8518
0.25	2.00	21.00	24.20	Copper Manganese 43 Alloy	SBZ-CM2-R00025-8518



Packing

100 Pieces vacuum packed in plastic bags
 Customised packing available on request