

## BWB Series



- Constant Current up to 100 amps (0.5mΩ)
- Four Terminal Configuration
- Excellent Long Term Stability
- Max. Solder Temperature up to 350°C / 30sec
- RoHS and REACH Certified
- AEC-Q200 Qualified
- Applications : Current Sensing / Feedback, Automotive Applications  
 Power Modules, Frequency Converters

### GENERAL SPECIFICATION

Model	Rated Power [W]		Resistance [mΩ]	t±0.1	Material	T.C.R [ppm/°C]	Resistance Tolerance
	*70°C	*100°C					
BWB05	12	5	0.2	1.40	Copper Manganese Alloy	Max. ±50	F [±1.0%] G [±2.0%] J [±5.0%]
	10	5	0.3	0.99			
	9	5	0.5	0.65			
	8	5	0.7	0.47			
	7	5	1.0	0.35	Aluchrom Alloy / NiCr Alloy		
	7	4	2.0	0.50			
	5	3	3.0	0.34			
	4	2	4.0	0.34			
3	2	5.0	0.34				

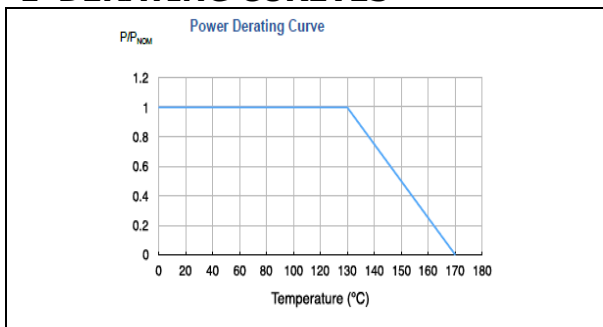
\*:Terminal temperature

### CHARACTERISTICS

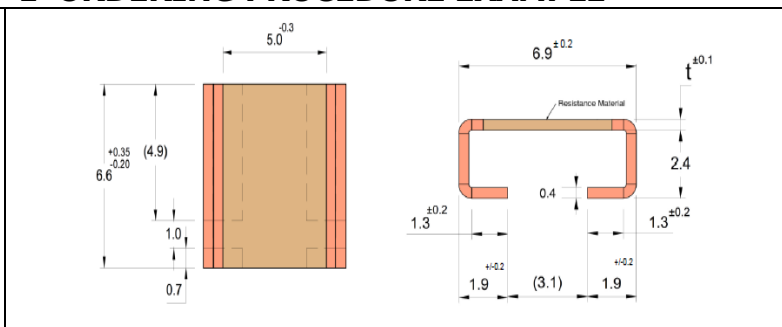
Values in [] mean Change in Ω After Test

Applicable Temperature range		-55°C ~ +170°C
High Temperature Exposure	±[1.0%]	1000 hrs. @ T=170°C. Unpowered
Temperature Cycling	±[0.5%]	-55°C to 150°C, 1000 Cycles, 30minutes at each extreme
Biased Humidity	±[0.5%]	85°C & 85%RH with 10% Operating power, 1000 hrs
Operational Life	±[1.0%]	125°C at rated power, 1000 hrs
Mechanical Shock	±[0.2%]	100g For 6ms, Half sine
Vibration	±[0.2%]	5g for 20 minutes, 12 cycles each of 3 orientations. 10-2000Hz
Resistance to Soldering Heat	±[0.5%]	Solder Temp. 260°C, Time 10 seconds
Short Time Over Load	±[1.0%]	5 x Rated Power for 5 Seconds
Low Temperature Storage	±[0.2%]	-65°C for 24 hrs

### DERATING CUREVES



### ORDERING PROCEDURE EXAMPLE



### ORDERING PROCEDURE EXAMPLE & REEL INFORMATION

BWB05 ↓ Model #	1mΩ ↓ Resistance value	F ↓ Resistance tolerance	J[±5%] G[±2%] F[±1%]								
<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">Reel Information</th> </tr> </thead> <tbody> <tr> <td>Reference Standard</td> <td>DIN EN 60286-3</td> </tr> <tr> <td>Width of Reel</td> <td>16 mm</td> </tr> <tr> <td>Number of parts per Reel</td> <td>1400 pcs</td> </tr> </tbody> </table>				Reel Information		Reference Standard	DIN EN 60286-3	Width of Reel	16 mm	Number of parts per Reel	1400 pcs
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