EXAMPLE OF HOW TO SPECIFY

EBG RESISTORS

A Miba Group Company

Metal Film

Series NE

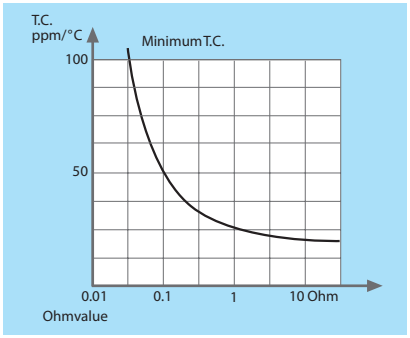
Precision Metal Film Resistors, molded style

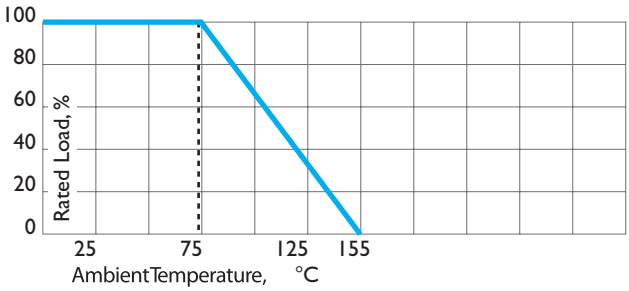
EBG's NE series features extremely low ranges heretofore unavailable in the industry. As a result of a special proprietary filming method, a nickel film is employed with controlled amounts of other metals, which results in fracturial resistance value availability, but with low temperature coefficient of resistance and high stability.

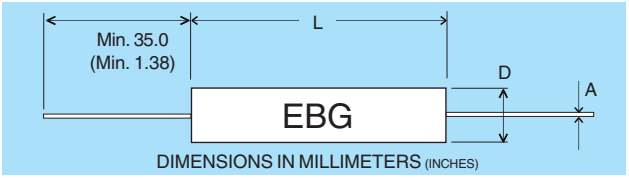
- Resistance values as low as 0.05 Ω

Specifications

- Resistance tolerance: from ±0.05% to ±5%
- Temperature coefficient: according to drawing
- Operating temperature: –55°C to + 155°C
- Insulation resistance: 104 MΩ at 500 V DC
- Noise: less than 0.05 µV/V







Model no.	Wattage	Resistance		Dimensions in millimeters (inches)		
		Min.	Max.	L	D	A
NE 1/10	0.25	0.025R	20R	6.80±.30 *(.268±.01)*	2.50±.40 *(.098±.02)*	.060±.05 *(.024±.002)*
NE 1/8	0.50	0.1R	20R	10.00±.30 *(.394±.01)*	3.70±.40 *(.146±.02)*	.60±.05 *(.024±.002)*
NE 1/4	1.00	0.1R	20R	14.80±.30 *(.583±.01)*	5.20±.40 *(.205±.02)*	.60±.05 *(.024±.002)*
NE 1/2	1.50	0.1R	20R	18.30±.30 *(.720±.01)*	6.50±.40 *(.256±.02)*	.81±.05 *(.032±.0.002)*

Series EE

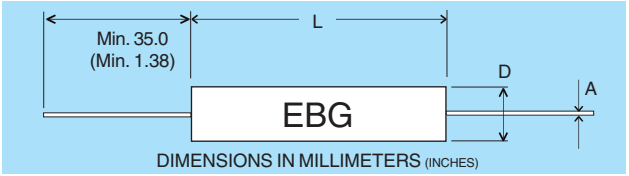
Precision Metal Film Resistors, molded style

EBG's EE styles conform dimensionally to the RN styles of MIL-R- 10509 and the RNR styles of MIL-R- 55182. All of EBG's Metal Film Resistor styles offer performances that exceed the requirements of both of these specifications. All EE styles can be used for automatic insertion and/or encapsulation.

Specifications

- Resistance tolerance: from ±0.02% to ±1%
- temperature coefficient: from ±5 ppm/°C to ±50 ppm/°C all TCR referenced to 25°C, ΔR taken at +25°C and +85°C, other temperature ranges upon request
- Elements are produced and tested in accordance with MIL-R-10509 and MIL-R-55182 as well as MIL-STD-202.
- Special Feature – Series UAR
- Standard storage conditions: 0 to 85°C at 80% RH max. for min. 12 months. For different conditions please contact your local EBG representative!

Upon request, EBG will conduct a "burn-in" of these elements for ultimate stability. Please refer to the UAR (Ultra Accurate Resistor) series and ask for a detailed datasheet!



Type MIL 10509	EE 1/20 RN 50	EE 1/10 RN 55	EE 1/8 RN 60	EE 1/4 RN 65	EE 1/2 RN 70
Power rating (W at 125°C)	.05	.10	.125	.25	.50
Max. working voltage (V)	200	250	300	300	350

Model no.	Wattage 70°C	Max. continuous oper. Volt.	Resistance	
			Min.	Max.
EE 1/20	.125	200	20R	600K
EE 1/10	.250	250	20R	3M
EE 1/8	.500	300	20R	5M
EE 1/4	.750	300	20R	10M
EE 1/2	1.000	350	20R	15M

Model no.	Dimensions in millimeters (inches)		
	L	D	A
EE 1/20	390±.30 *(.154±.01)*	1.80±.40 *(.071±.02)*	.45±.05 *(.018±.002)*
EE 1/10	6.80±.30 *(.268±.01)*	2.50±.40 *(.098±.02)*	.60±.05 (.024±.002)
EE 1/8	10.00±.30 *(.394±.01)*	3.70±.40 *(.146±.02)*	.60±.05 *(.024±.002)*
EE 1/4	14.80±.30 *(.583±.01)*	5.20±.40 *(.205±.02)*	.60±.05 *(.024±.002)*
EE 1/2	18.30±.30 *(.720±.01)*	6.50±.40 *(.256±.02)*	.81±.05 *(.032±.0.002)*

The above spec. sheet features our standard products. For further options, please contact our local EBG representative or contact us directly. For updated information, please visit our website!