

# Series EE

Molded style

1/1

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



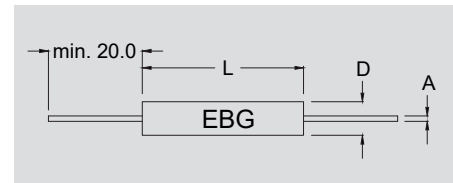
## Technical Specifications

<b>Resistance value</b>	10 Ω ≤ 10 MΩ (other values on special request)
<b>Resistance tolerance</b>	±0.02 % to ±1 %
<b>Temperature coefficient</b>	±5 ppm/°C to ±50 ppm/°C TCR referenced to 25°C, ΔR taken at +25°C and +85°C (other TCR on special request)
<b>Special feature</b>	elements are produced and tested in accordance with MIL-R-150509, MIL-R-55182, MIL-STD-202 series UAR (ask for details)

Model no.	Wattage 70°C	Max. continuous oper. Volt.	Resistance values		Dimensions in millimeters (inches)		
			Min.	Max.	L	D	A
EE 1/20	0.125	200	10 Ω	2 MΩ	4.30 ± .30 (.169 ± .01)	1.90 ± .30 (.075 ± .01)	.40 ± .05 (.016 ± .002)
EE 1/10	0.250	200	10 Ω	10 MΩ	6.80 ± .30 (.268 ± .01)	2.50 ± .30 (.169 ± .01)	.60 ± .05 (.024 ± .002)
EE 1/8	0.500	250	10 Ω	10 MΩ	10.20 ± .30 (.402 ± .01)	3.80 ± .30 (.149 ± .01)	.60 ± .05 (.024 ± .002)
EE 1/4	0.750	300	10 Ω	10 MΩ	15.10 ± .30 (.594 ± .01)	5.20 ± .30 (.205 ± .01)	.60 ± .05 (.024 ± .002)
EE 1/2	1.000	350	10 Ω	10 MΩ	18.40 ± .30 (.724 ± .01)	6.50 ± .30 (.256 ± .01)	.80 ± .05 (.031 ± .002)

Type MIL-R-10509	EE 1/20 RN55	EE 1/10 RN55	EE 1/8 RN60	EE 1/4 RN65	EE 1/2 RN70
<b>Power rating (W at 125°C)</b>	.05	.10	.125	.25	.50
<b>Max. working voltage (V)</b>	200	200	250	300	350

On special request, EBG Resistor 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!

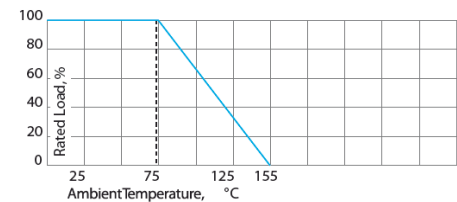


## How to make an order

Model no.\_Ohmic value\_Tolerance\_TC

For example:

EE 1/2 10M 0.1% 5ppm or NE 1/8 10R 1% 5%



# Series NE

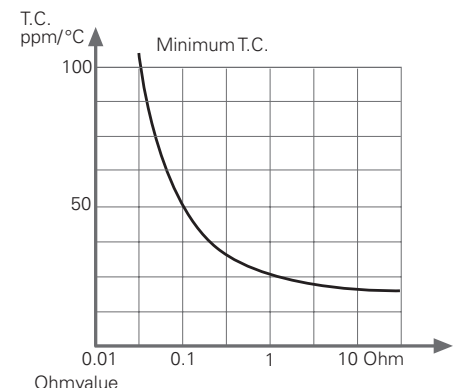
Molded style

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

## Technical Specifications

<b>Resistance value</b>	0.05 Ω ≤ 10 Ω (other values on special request)
<b>Resistance tolerance</b>	±0.05 % to ±5 %
<b>Temperature coefficient</b>	according to drawing
<b>Operating temperature</b>	-55°C to +155°C
<b>Insulation resistance</b>	104 MΩ at 500 V DC
<b>Noise</b>	less than 0.05 μV/V

Model no.	Wattage	Resistance values		Dimensions in millimeters (inches)		
		Min.	Max.	L	D	A
NE 1/10	0.25	0.05 Ω	10 Ω	6.80 ± .30 (.268 ± .01)	2.50 ± .30 (0.98 ± .01)	.60 ± .05 (.024 ± .002)
NE 1/8	0.50	0.05 Ω	10 Ω	10.20 ± .30 (.402 ± .01)	3.80 ± .30 (.149 ± .01)	.60 ± .05 (.024 ± .002)
NE 1/4	1.00	0.05 Ω	10 Ω	15.10 ± .30 (.594 ± .01)	5.20 ± .30 (.205 ± .01)	.60 ± .05 (.024 ± .002)
NE 1/2	1.50	0.05 Ω	10 Ω	18.40 ± .30 (.724 ± .01)	6.50 ± .30 (.256 ± .01)	.80 ± .05 (.031 ± .002)



The above spec. sheet features our standard products. For further options please contact our local EBG representative or contact us directly.