EXAMPLE OF HOW TO SPECIFY

EBG RESISTORS

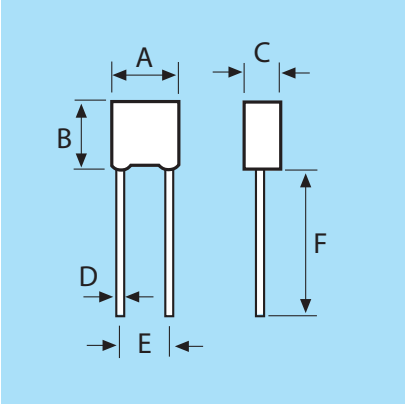
A Miba Group Company

Metal Film

Series UPR / UPSC

Radial Resistors, extremely precise

- Precision tolerances: ±0.1% is standard, and tolerances as close as ±0.01% are available
- Low temperature coefficient: better than 3 ppm/°C, 5 ppm°C, 10 ppm/°C or 15 ppm/°C
- Long-term stability: better than ±0.05% per 2,000 hours of operation.
- Wide resistance range: from 10 Ω to 255 KΩ



Specifications

- Resistance tolerance: ±1.0% (tolerances to ±0.01% upon special request)
- Std. operating temperature: –55°C to + 85°C
- TC Temperature range: –20°C to +85°C
- Overload: 6.25 times rated power for 5 seconds at voltage not to exceed 1.5 times maximum rated working voltage, ΔR less than 0.05%
- Load life: 2,000 hours at + 125°C, ΔR less than 0.05%
- Moisture resistance: Mil-Std-202, Method 106, ΔR less than 0.02%
- Thermal shock: Mil-Std-202, Method 107, Cond. B, ΔR less than 0.05%
- Insulation resistance: 10,000 MΩ
- Low temperature operation: ΔR less than 0.02%
- Dielectric withstanding voltage: ΔR less than 0.02%
- Vibration: ΔR less than 0.01%
- Shock: ΔR less than 0.02%
- Standard storage conditions: 0 to 85°C at 80% RH max. for min. 12 months. For different conditions please contact your local EBG representative!

Dim.	Dimensions in millimeters *Dimensions in inches*	
	UPSC	UPR
A	7.50±.20 *(.295±.008)*	10.50±.30 *(.413±.012)*
B	8.50±.20 *(.335±.008)*	9.00±.30 *(.354±.012)*
C	2.50±.20 *(.098±.008)*	4.00±.30 *(.157±.012)*
D	0.63±.05 *(.025±.002)*	0.63±.05 *(.025±.002)*
E	3.81±.38 *(0.150±.015)*	7.62±.38 *(0.300±.015)*
F	25±1 *(0.98±.04)*	25±1 *(0.98±.04)*

Types UPSC and UPR Low TC Precision Radial-Lead Resistors - Standard Characteristics

Model no.	Temperature coefficient ppm/°C	Wattage +70°C	Max. working voltage	Dielect strength U DC	Resistance		Dimensions
					Min.	Max.	
UPSC UPR	±3 to ±15 ±3 to ±15	0.60 0.60	300 250	500 400	100R 10R	1M 255K	see Matrix see Matrix

Tests	Conditions	MIL-R-55182/9	Typical drifts
Power conditioning (108)	100 hours/rated power at + 125°C 90'/30' cycle	-	±0.02% combined test
Thermal shock (107)	5 cycles -65°C / +150°C	±0.05% combined test	
Short time overload	6.25 times rated power / 5sec		
Low temperature storage and operation	1h stor. 45 min rated pow. at -65°C	±0.05%	-
	24h stor. 45 min rated pow. at -65°C	-	±0.01%
Terminal strength (211)	2lb pull test	±0.02%	±0.01%
Dielectric withstanding Voltage (301)	300 V Atmospheric 200 V / 100.000 ft.	±0.02%	±0.01%
Resist to soldering (210)	350°C / 3 sec.	±0.02%	±0.01%
Moisture resistance (106)	10 days	±0.05%	±0.01%
Shock	10 shocks 100g 6ms sawtooth	±0.01%	±0.01%
Vibration (204)	10 to 2000 Hz. 20 g 8 hours	±0.02%	±0.01%
Load life (108)	2000 hours at rated power at +25°C, +85°C or +125°C	±0.05%	±0.05%
	10,000 hours at rated power at +125°C	+ ±0.5%	±0.2%
Storage LIfe	10,000 h. no load at room conditions	-	±0.005%

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!