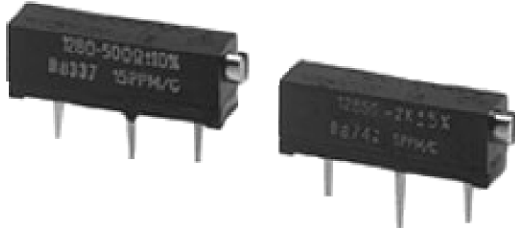


Bulk Metal® Foil Technology Precision Trimming Potentiometers 3/4" Rectilinear, $\pm 5 \text{ ppm}/^\circ\text{C}$ and $\pm 15 \text{ ppm}/^\circ\text{C}$ TCR



FEATURES

- Temperature coefficient of resistance (TCR):
(- 55 °C to + 125 °C ref. at + 25 °C)
- $\pm 15 \text{ ppm}/^\circ\text{C}$ (model 1280G);
- $\pm 5 \text{ ppm}/^\circ\text{C}$ (model 1285G³);
- through the wiper $\pm 50 \text{ ppm}/^\circ\text{C}$
- Load life stability: 0.5 % maximum ΔR under full rated power at + 25 °C for 2000 h
- Electrostatic discharge: above 25 000 V
- Settability: 0.05 % typical; 0.1 % maximum
- Setting stability: 0.1 % typical; 0.5 % maximum, ΔSS
- Power rating: 0.75 W at + 25 °C
- Resistance range: 10 Ω to 20 k Ω
- Resistance tolerance: $\pm 10 \%$, $\pm 5 \%$
- Backlash: < 0.05 %
- Tap test: 0.05 % typical; 0.1 % maximum
- "O"-ring prevents ingress of fluids during any board cleaning operation
- Termination: gold plated



RoHS
COMPLIANT

**TABLE 1 - 1280G AND 1285G SERIES
ELECTRICAL SPECIFICATIONS**

Resistance Tolerance	Model 1280G 10 % ¹⁾ Model 1285G 5 %
Resistance Range	10 Ω to 20 k Ω
TCR Model 1280G	$\pm 15 \text{ ppm}/^\circ\text{C}$ (- 55 °C to + 25 °C) $\pm 15 \text{ ppm}/^\circ\text{C}$ (+ 25 °C to + 125 °C)
TCR Model 1285G³⁾	$\pm 5 \text{ ppm}/^\circ\text{C}$ (- 55 °C to + 25 °C) $\pm 5 \text{ ppm}/^\circ\text{C}$ (+ 25 °C to + 125 °C)
Power	0.75 W at + 25 °C derated linearly to 0 W at + 125 °C (see Fig. 2)
Settability	0.05 % typical; 0.1 % maximum
Setting Stability	0.1 % typical; 0.5 % maximum, ΔSS
Roll-on, Roll-off	0.25 % typical; 1.0 % maximum
Load Life Stability	0.5 % ΔR after 2000 h under full rated power at + 25 °C
End Resistance	2 Ω maximum
C.R.V.²⁾	3 Ω typical; 10 Ω maximum
Frequency Characteristics	10 ns rise time at 1 k Ω to 100 MHz

Notes

1. 5 % available on special order
2. The 1280G can be screened for low noise, if required
3. For model 1285G 10 Ω and 20 Ω TCR is $\pm 10 \text{ ppm}/^\circ\text{C}$
4. Panel mount available on special order

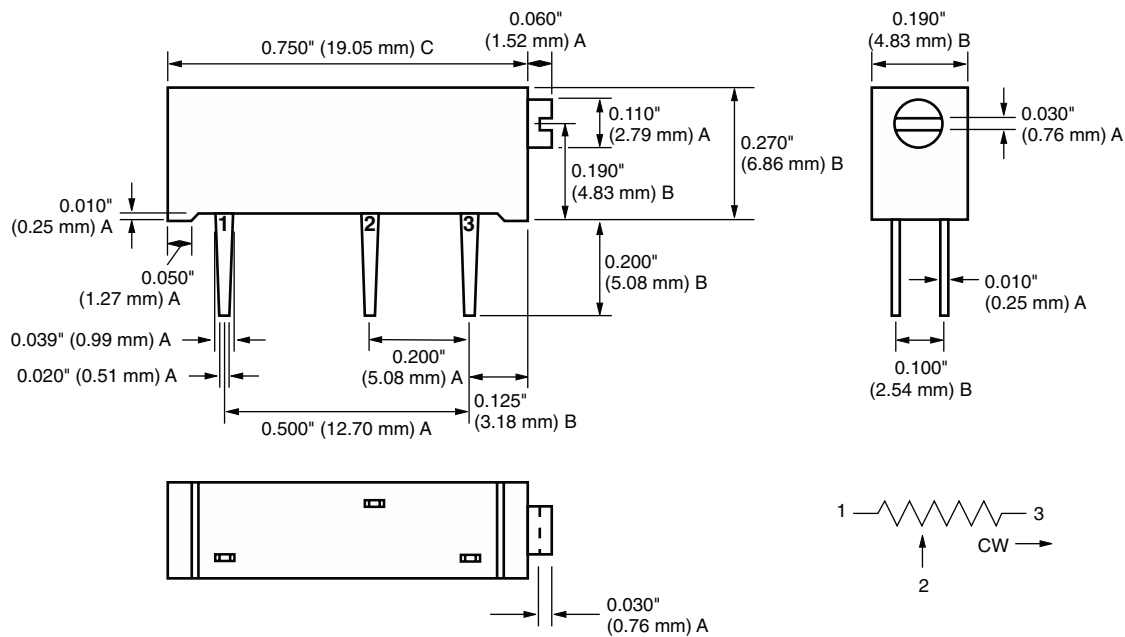
TABLE 2 - STANDARD VALUE

10 Ω , 20 Ω , 50 Ω , 100 Ω , 200 Ω , 500 Ω 1K, 2K, 5K, 10K, 20K
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**TABLE 3 - 1280G AND 1285G SERIES
MECHANICAL SPECIFICATIONS**

Adjustment Turns	26 \pm 2 turns
Backlash	< 0.05 %
Stops	clutch, wiper idles
Sealed	+ 85 °C water immersion
Torque	5 oz. in. maximum
Weight	1.5 grams maximum
Construction	
Case Material	Valox®
Lead Screw	Brass
Wiper	Precious metal brush
Rider Block	Nylon
Element	Bulk Metal® Foil
Lead Material	Gold plated phosphor bronze

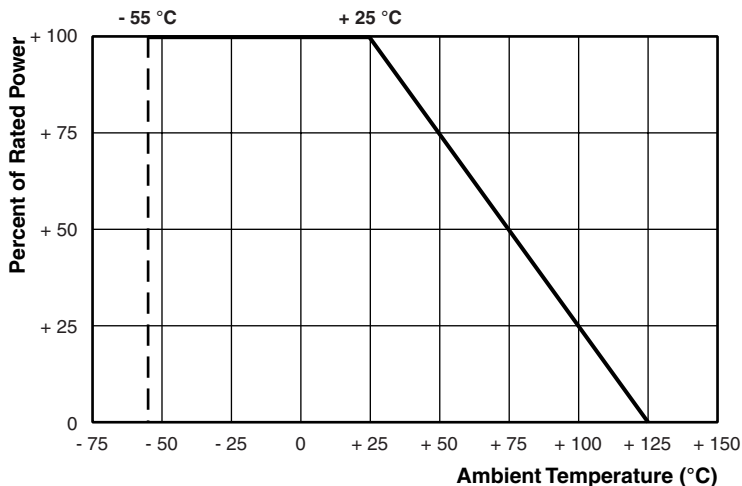
FIGURE 1 - 1280G/1285G SCHEMATIC AND DIMENSIONS in inches (millimeters)



TOLERANCES

- A = ± 0.005 " (0.13 mm)
- B = ± 0.010 " (0.25 mm)
- C = ± 0.015 " (0.38 mm)

FIGURE 2 - POWER DERATING CURVE

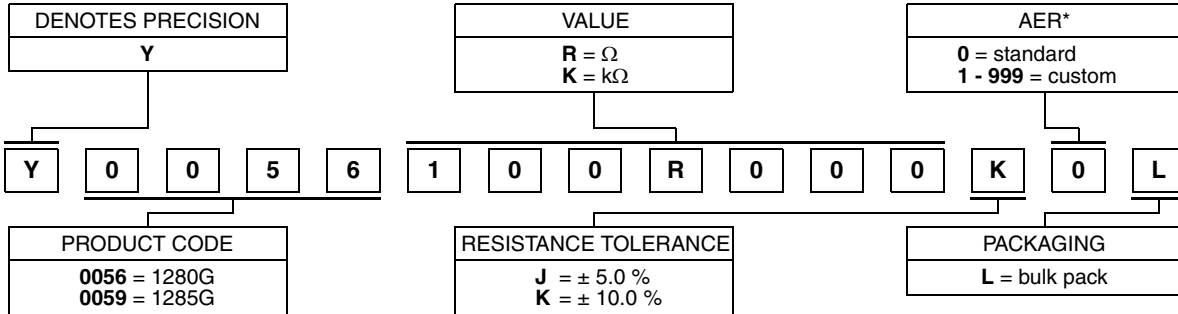




Bulk Metal® Foil Technology
 Precision Trimming Potentiometers
 3/4" Rectilinear, $\pm 5 \text{ ppm}/^\circ\text{C}$ and $\pm 15 \text{ ppm}/^\circ\text{C}$ TCR

TABLE 4 - GLOBAL PART NUMBER INFORMATION

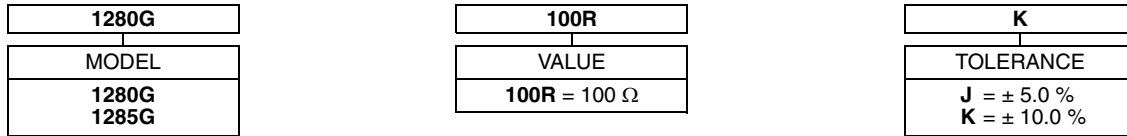
NEW GLOBAL PART NUMBER: Y0056100R000K0L (preferred part number format)



FOR EXAMPLE: ABOVE GLOBAL ORDER Y0056 100R000 K 0 L:

TYPE: 1280G
 VALUES: 100.0 Ω
 ABSOLUTE TOLERANCE: $\pm 10\%$
 TERMINATION: gold plated
 PACKAGING: bulk pack

HISTORICAL PART NUMBER: 1280G 100R K (will continue to be used)



Note

* For non-standard requests or additional values, please contact application engineering.



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