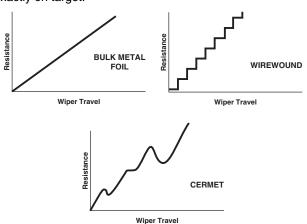


Bulk Metal[®] Foil Technology Ultra High Precision Trimming Potentiometers ³/₄" Rectilinear, ± 5 ppm/°C and ± 15 ppm/°C TCR with a Smooth and Unidirectional Output



INTRODUCTION

Vishay Foil precision trimmers have the Bulk Metal[®] Foil resistive element which possesses a unique inherent temperature and load life stability. Plus, their advanced virtually back lash-free adjustment mechanism makes them easy to set quickly and accurately and keeps the setting exactly on target.



FEATURES

- Temperature coefficient of resistance (TCR):
 (- 55 °C to + 125 °C ref. at + 25 °C)
 - ± 15 ppm/°C (model 1280G);
 - $\pm 5 \text{ ppm/°C (model 1285G)}^{3)};$
 - through the wiper ± 50 ppm/°C
- A smooth and unidirectional resistance with leadscrew adjustment
- Load life stability: 0.5 % maximum ΔR under full rated power at + 25 °C for 2000 h
- Electrostatic discharge (ESD) up to 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: ± 10 %, ± 5 %
- Backlash: < 0.05 %
- Tap test: 0.05 % typical; 0.1 % maximum
- "O"-ring prevents ingress of fluids during any board cleaning operation
- Terminal finish: gold plated (tin/lead finish available on request)

Resistance Tolerance	Model 1280G 10 % ⁽¹⁾ , Model 1285G 5 %
Resistance Range	10 Ω to 20 kΩ
TCR Model 1280G	± 15 ppm/°C (- 55 °C to + 125 °C, ref. + 25 °C)
TCR Model 1285G (3)	± 5 ppm/°C (- 55 °C to + 125 °C, ref. + 25 °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
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. (noise) (2)	3Ω typical; 10Ω maximum
Frequency Characteristics	10 ns rise time at 1 kΩ 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 ppm/°C
- (4) Panel mount available on special order

TABLE 2 - STANDARD VALUE

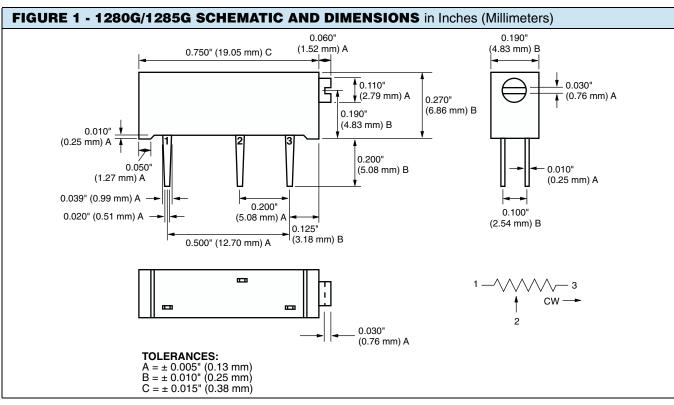
10 Ω , 20 Ω , 50 Ω , 100 Ω , 200 Ω , 500 Ω , 1 k Ω , 2 k Ω , 5 k Ω , 10 k Ω , 20 k Ω

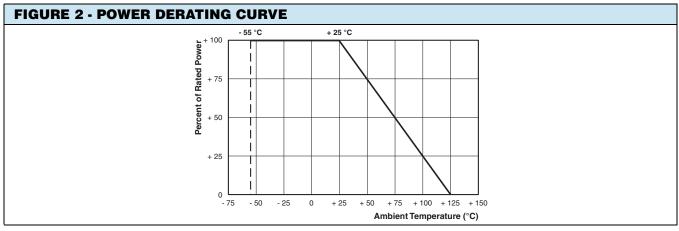
Document Number: 63056 Revision: 25-Mar-10 For any questions, contact: foil@vishaypq.com

Vishay Foil Resistors

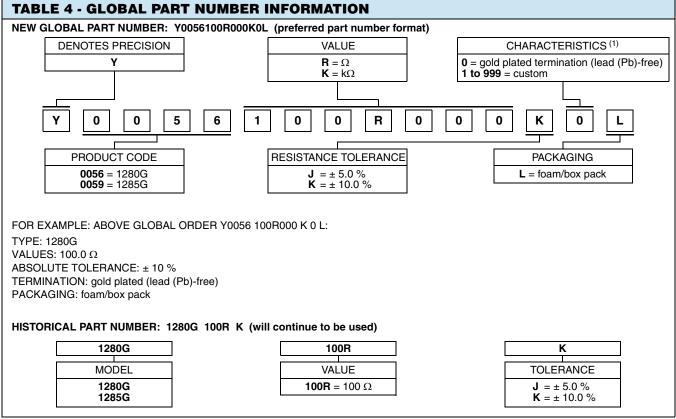


TABLE 3 - 1280G AND 1285G SERIES MECHANICAL SPECIFICATIONS		
Adjustment Turns	26 ± 2 turns	
Backlash	< 0.05 %	
Stops	clutch, wiper idles	
Sealed	+ 85 °C water immersion	
Torque	5 oz. in. maximum	
Weight	1.5 grams maximum	
Construction Case Material Lead Screw Wiper Rider Block Element Lead Material	Valox® Brass Precious metal brush Nylon Bulk Metal® Foil Gold plated phosphor bronze	









Note

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⁽¹⁾ For non-standard requests or additional values, please contact application engineering.





Vishay Precision Group, Inc.

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