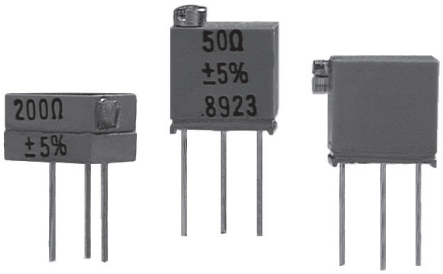
Bulk Metal® Foil Technology Precision Trimming Potentiometers, 1/4 Inch Rectilinear, RJ26 Style - Industrial Trimmer



Product may not be to scale

FEATURES

- Temperature Coefficient of Resistance (TCR): ± 20 ppm/°C Max[2] (- 55 °C to + 150 °C Ref. at + 25 °C); Through the wiper[3]; ± 50 ppm/°C
- Load Life Stability: 1.0 % Maximum ΔR under Full Rated Power for 2000 hours at + 85 °C
- Settability: 0.1 %
- Setting Stability: 0.1 % Typical[1]; 0.5 % Maximum[1], ΔSS
- Power Rating[4]: 0.25 watts at + 85 °C
- Resistance Range: 20 Ω to 5 kΩ
- Resistance Tolerance: ± 10 %

TABLE 1 - MODEL SELECTION†

MODEL	TERMINATION STYLE	AVERAGE WEIGHT (g)	STANDARD RESISTANCE VALUES (in Ω)	STANDARD TOLERANCES	POWER RATING at + 85 °C AMBIENT	NO. OF TURNS
1248	W-Edge Mount, Top Adjust	0.4	20, 50, 100, 200, 500, 1K 2K, 5K	± 10 %	0.25 W	21 ± 2
	X-Edge Mount, Side Adjust					
	P-Horizontal Mount, Side Adjust					

NOTES:

† See Figure 1, next page.

1. Maximum is 1.0 % A.Q.L. standard for all specifications except TCR. (For TCR information see notes 2 and 3). “Typical” is a designers reference which represents that 85 % of the lots supplied, over a long period of time, will be at least the figure stated or better.
2. Maximum TCR applies to the 3 s (sigma) limit or 99.73 % of a production lot. (Measured end-to-end with wiper off the element.)
3. Measurements of TCR through the wiper are influenced more by setting stability and the percentage of the total resistance in use (atthe wiper) than by fundamental resistance change due to temperature alone. The parameter shown is a 2 s distribution typifying the behavior of the device when used with 40 % or more of the total resistance in use.
4. Derated linearly from full power at + 85 °C to zero (0) watts at + 150 °C. See Figure 2, next page.
5. Independent of resistance value 3 W maximum available on special request.

Special Available Options:

Special marking
Burn-in and screening operations

ADDITIONAL SPECIFICATIONS:

- Contact Resistance Variation - CRV (noise): 10 Ω Maximum[5]
- Hop-off: 0.25 % Typical; 1.0 % Maximum
- Operating Temperature Range: - 55 °C to + 150 °C
- Adjustment Turns: 21 ± 2
- Mechanical Stops: Wiper Idles - No Discontinuity

TABLE 2 - ORDERING INFORMATION - 1248 SERIES PARTS

Please specify Vishay Model 1248 Precision Trimming Potentiometers as follows:

MODEL NO.	TERMINATION STYLE	RESISTANCE VALUE	TOLERANCE
1248	W	100R	10 %

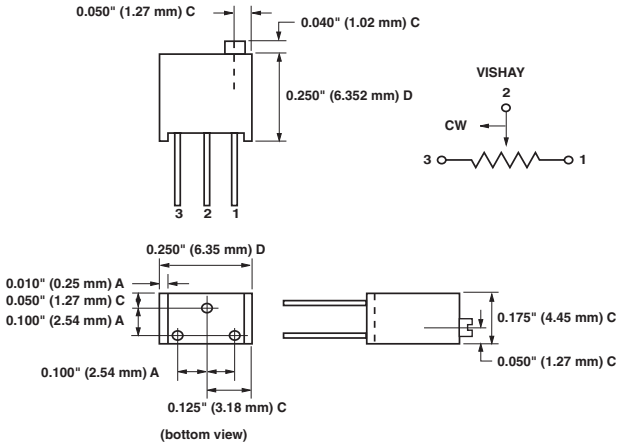
NOTES:

See Table 1 for details.

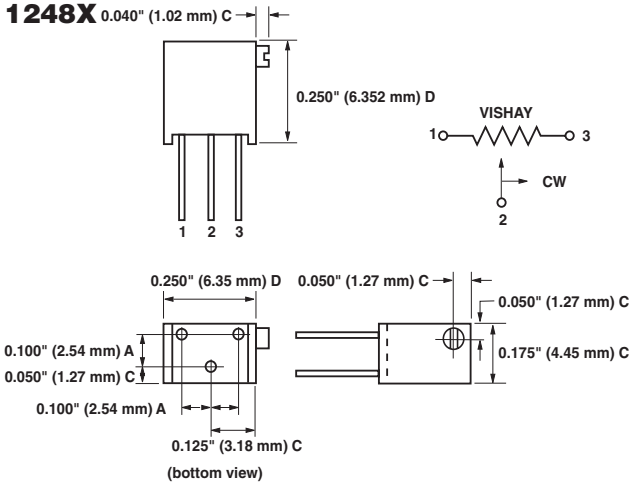
See Figure 1, next page for Standard Marking.

FIGURE 1 - SCHEMATIC AND DIMENSIONS in inches (millimeters)

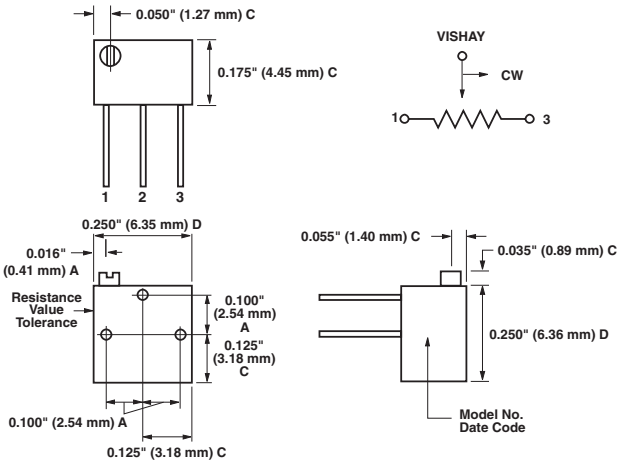
1248W



1248X



1248P



STANDARD MARKING

Model No.
Date Code
Resistance Value
Tolerance

TOLERANCES

A = ± 0.005 Inches (0.13 mm)
C = ± 0.010 Inches (0.25 mm)
D = ± 0.020 inches (0.51 mm)

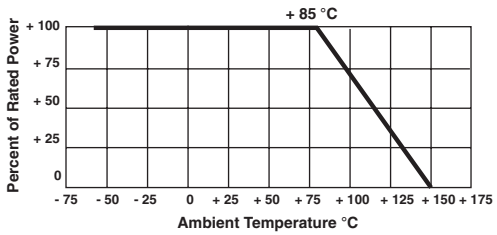
NOTE:

† Standard markings on this surface.

NOTE:

1. Adjustment screw 0.080 Inches (2.03 mm) diameter with 0.025 Inches (0.64 mm) x 0.030 Inches (0.76 mm) slot. Tolerances on screw dimensions is ± 0.005 Inches (0.13 mm). Model 1248 has gold plated terminal pins 0.016 Inches (0.41 mm) ± 0.001 Inches (0.03 mm) diameter, 0.200 Inches (5.08 mm) length minimum.

FIGURE 2 - POWER DERATING CURVE



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