



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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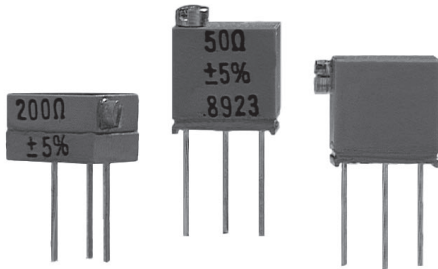
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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 Max²⁾ (- 55 °C to + 150 °C Ref. at + 25 °C);
Through the wiper³⁾; ± 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 % Typical¹⁾; 0.5 % Maximum¹⁾, ΔSS
- Power Rating⁴⁾: 0.25 watts at + 85 °C
- Resistance Range: 20 Ω to 5 k Ω
- 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 (at the 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 Maximum⁵⁾
- 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

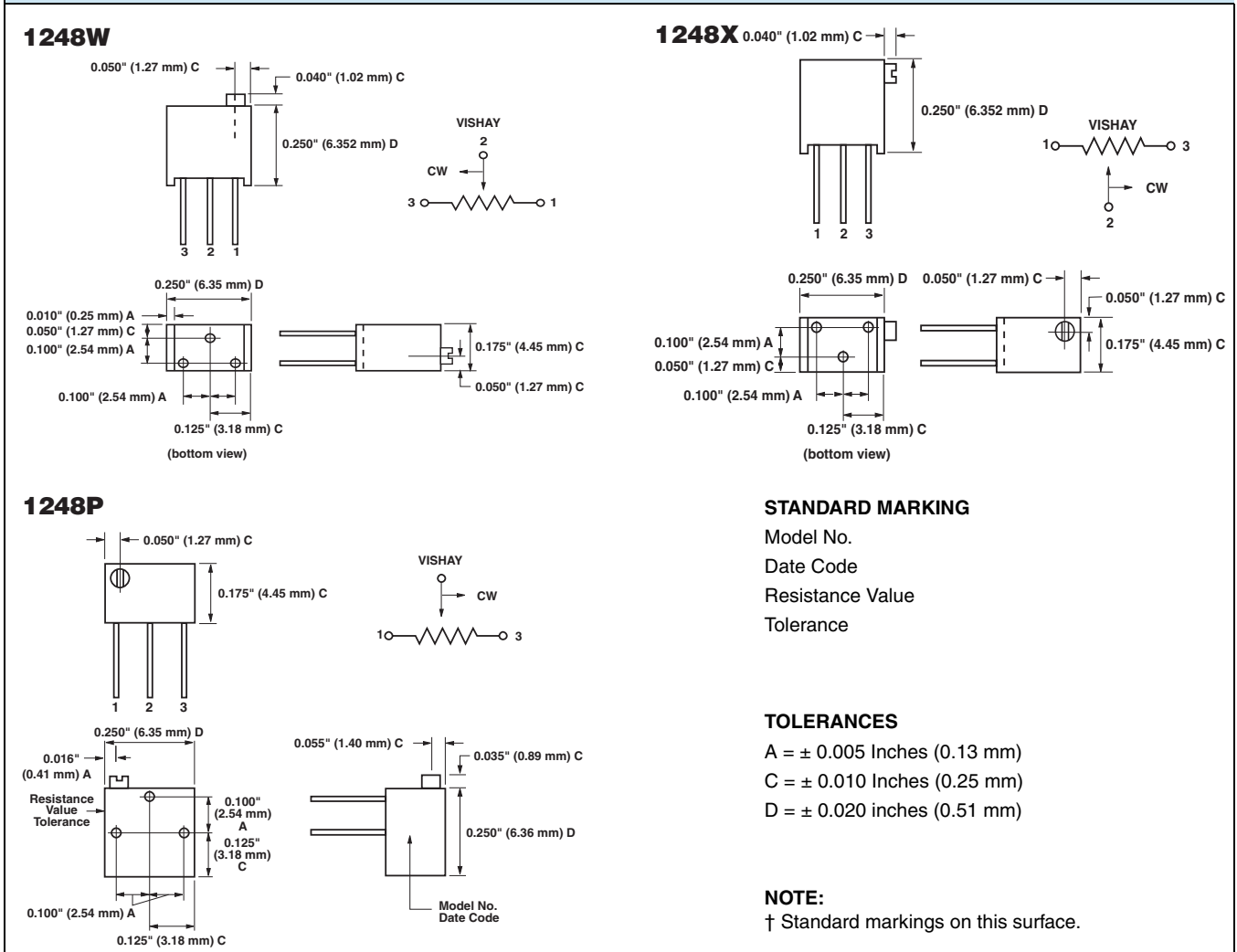
| Please specify Vishay Model 1248 Precision Trimming Potentiometers as follows: | | | |
|--|-------------------|------------------|-----------|
| MODEL NO. | TERMINATION STYLE | RESISTANCE VALUE | TOLERANCE |
| 1248 | W | 100R | 10 % |

NOTES:

See Table 1 for details.

See Figure 1, next page for Standard Marking.

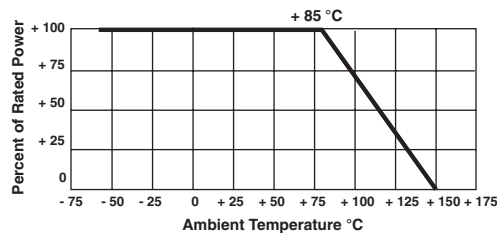
FIGURE 1 - SCHEMATIC AND DIMENSIONS in inches (millimeters)



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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