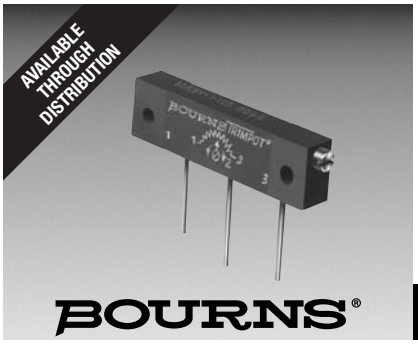



## Features

- 1-1/4 " Rectangular / Multiturn Cermet / Industrial / Sealed
- Panel mount option available
- Listed on the QPL per MIL-PRF-22097
- For trimmer applications/processing guidelines, click here

# RJ12 - Trimpot® Trimming Potentiometer

### Electrical Characteristics

Standard Resistance Range ..... 10 ohms to 1 megohm (see standard resistance table)
Resistance Tolerance ..... ±10 % std.
Absolute Minimum Resistance ..... 1 % or 2 ohms max. (whichever is greater)
Contact Resistance Variation ..... 1.0 % or 1 ohm max. (whichever is greater)
Adjustability
Voltage ..... ±0.01 %
Resistance ..... ±0.05 %
Resolution..... Infinite
Insulation Resistance ..... 500 vdc. 1,000 megohms min.
Dielectric Strength
Sea Level ..... 900 vac
70,000 Feet..... 350 vac
Effective Travel ..... 22 turns nom.

### Environmental Characteristics

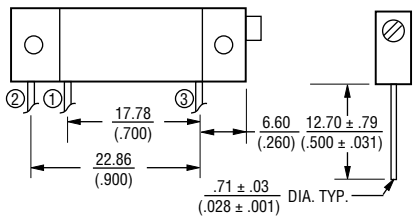
Power Rating @ 70 °C (400 volts max.) ..... 1.0 watt
Power Rating @ 150 °C ..... 0 watt
Temperature Range....-55 °C to +150 °C
Temperature Coefficient ....±100 ppm/°C
Seal Test..... 85 °C Fluorinert* (pin styles only)
Humidity..... MIL-STD-202 Method 106 (2 % ΔTR, 10 Megohms IR)
Vibration ..... 20 G (1 % ΔTR; 1 % ΔVR)
Shock..... 50 G (1 % ΔTR; 1 % ΔVR)
Load Life.. 1,000 hours 1.0 watt @ 70 °C (3 % ΔTR; 1% or 1 ohms, whichever is greater, CRV)
Rotational Life..... 200 cycles (2 % ΔTR; 1 % or 1 ohm, whichever is greater, CRV)

### Physical Characteristics

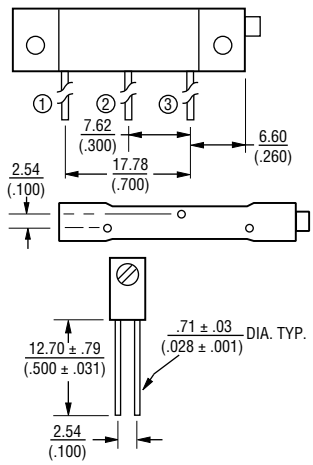
Torque..... 5.0 oz-in. max.
Mechanical Stops ..... Wiper idles
Terminals .Solderable printed circuit pins
Flexible leads ..... (7 strands of 30 AWG)
Weight ..... 0.1 oz.
Marking..... Manufacturer's trademark, resistance code, terminal numbers, date code, manufacturer's model number and style
Wiper ..... 50 % (Actual TR) ±10 %
Flammability ..... U.L. 94V-0
Standard Packaging ..... 10 pcs. per tube
Adjustment Tool ..... H-90

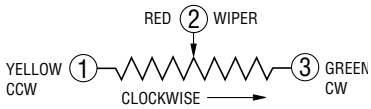
### Product Dimensions

**RJ12FP**




**RJ12FY**




DIMENSIONS: MM (INCHES)
TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

### How To Order

MIL-PRF-22097 **RJ12 F Y 103**

Model
Characteristic
F = ±100 ppm/°C Temp. Coeff. Max.
Terminal Style
Resistance Code

### Standard Resistance Table

| Resistance (Ohms) | Resistance Code |
|---|---|
| 10 | 100 |
| 20 | 200 |
| 50 | 500 |
| 100 | 101 |
| 200 | 201 |
| 500 | 501 |
| 1,000 | 102 |
| 2,000 | 202 |
| 5,000 | 502 |
| 10,000 | 103 |
| 20,000 | 203 |
| 25,000 | 253 |
| 50,000 | 503 |
| 100,000 | 104 |
| 200,000 | 204 |
| 250,000 | 254 |
| 500,000 | 504 |
| 1,000,000 | 105 |

REV. 12/12

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
"Trimpot" is a registered trademark of Bourns, Inc.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.