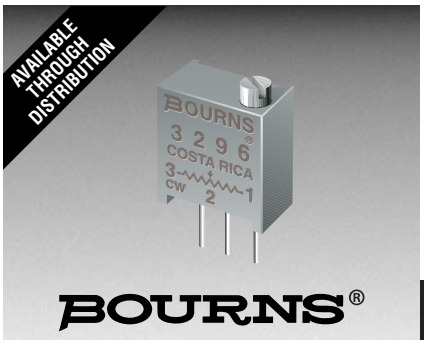


Features

- Multiturn / Cermet / Industrial / Sealed
- Standoffs
- Patent #4427966 drive mechanism
- Listed on the QPL per MIL-R-22097 and High-Rel Mil-R-39035

RJ24/RJR24 - 3/8 " Square Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range
.....10 to 1 megohm
(see standard resistance table)
Resistance Tolerance .....±10 % std.
Absolute Minimum Resistance
RJ24 .....2 % or 20 ohms max.
(whichever is greater)
RJR24 .....2 % or 2 ohms max.
(whichever is greater)
Contact Resistance Variation
.....3.0 % or 3 ohms 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 .....1,000 vac
80,000 Feet.....400 vac
Effective Travel.....25 turns nom.

Environmental Characteristics

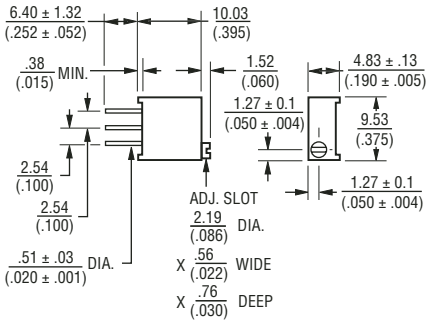
Power Rating (300 volts max.)
85 °C .....0.5 watt
150 °C .....0 watt
Temperature Range
.....-55 °C to +150 °C
Temperature Coefficient
.....±100 ppm/°C
Seal Test .....85 °C Fluorinert*
Humidity.....MIL-STD-202 Method 106
RJ24 .....96 hours
(1 % ΔTR, 10 Megohms IR)
RJR24.....96 hours
(1 % ΔTR, 100 Megohms IR)
Vibration.....20 G (1 % ΔTR; 1 % ΔVR)
Shock.....100 G (1 % ΔTR; 1 % ΔVR)
Load Life
RJ24 .....1,000 hours 0.5 watt @ 85 °C
(2 % ΔTR; 10% ΔVR)
RJR24..10,000 hours 0.5 watt @ 85 °C
(3 % ΔTR)
Rotational Life.....200 cycles (2 % ΔTR)

Physical Characteristics

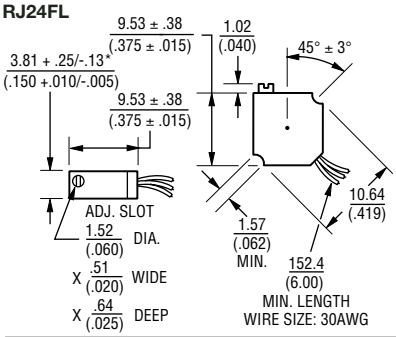
Torque .....5.0 oz-in. max.
Mechanical Stops.....Wiper idles
Terminals .....MIL-STD 202, Method 208
Weight .....0.025 oz.
Marking .....Mil-spec part number,
date code
Wiper.....50 % (Actual TR) ±10 %
Flammability .....U.L. 94V-0
Standard Packaging .....50 pcs. per tube
Adjustment Tool H-90

Product Dimensions

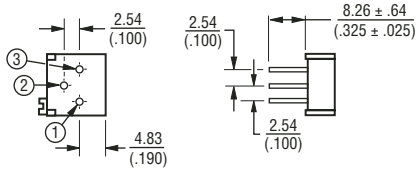
Common Dimensions



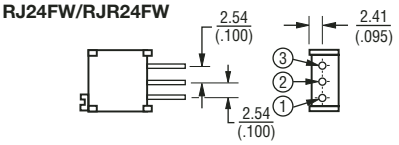
RJ24FL



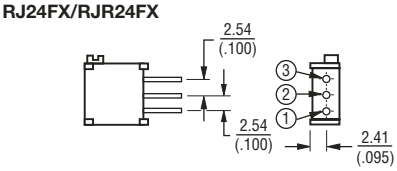
RJ24FP/RJR24FP



RJ24FW/RJR24FW



RJ24FX/RJR24FX



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS ARE: MM / (INCHES)

How To Order

MIL-PRF-22097 **RJ24 F L 202**

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

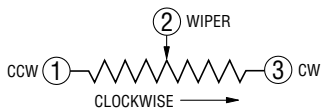
How To Order

MIL-PRF-39035 **RJR24 F W 502 R**

Model
Characteristic
F = ±100 ppm/°C Temp. Coeff. Max.
Terminal Style
Resistance Code
Failure Rate
M = 1.0 %
P = 0.1 %
R = 0.01 %

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. 09/05

*"Fluorinert" is a registered trademark of 3M Co.

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.