

BOURNS®

3252 1/2" Square Trimming Potentiometer

Features

- Multiturn / Cermet / Sealed
- Listed on the QPL for style RJ22 per MIL-R-22097
- Panel mount option available
- RoHS compliant* version available

Electrical Characteristics

Standard Resistance Range.....10 to 2 megohms
(see standard resistance table)
Resistance Tolerance.....±10 % std.
.....(tighter tolerance available)
Absolute Minimum Resistance
.....1 % or 2 ohms max. (whichever is greater)
Contact Resistance Variation
.....1 % or 2 ohms max. (whichever is greater)
Adjustability
Voltage±0.01 %
Resistance±0.05 %
ResolutionInfinite
Insulation Resistance.....500 vdc.
1,000 megohms min.
Dielectric Strength
Sea Level.....1,000 vac
80,000 Feet400 vac
Effective Travel25 turns nom.

Environmental Characteristics

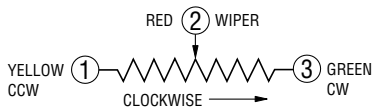
Power Rating @ 85 °C (400 volts max.)
.....0.75 watt
Power Rating @ 150 °C0 watt
Temperature Range-65 °C to +150 °C
Temperature Coefficient±100 ppm/°C
Seal Test85 °C Fluorinert* (pin styles only)
HumidityMIL-STD-202 Method 103;
96 hours (1 % ΔTR; 100 Megohms IR)
Vibration30 G (1 % ΔTR; 1 % ΔVR)
Shock100 G (1 % ΔTR; 1 % ΔVR)
Load Life.....1,000 hours 0.75 watt @ 85 °C
(3 % ΔTR; 3 % or 3 ohms,
whichever is greater, CRV)
Rotational Life.....200 cycles
(2 % ΔTR; 3 % or 3 ohms,
whichever is greater, CRV)

Physical Characteristics

Torque5.0 oz-in. max.
Mechanical StopsWiper idles
Terminals.....Solderable printed circuit pins
Flexible leads(7 strands of 30 AWG)
Weight0.065 oz.
Wiper50 % (Actual TR) ±10 %
Flammability.....U.L. 94V-0

Machine Screw Mounting

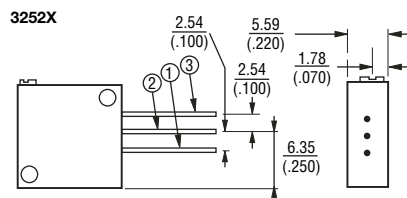
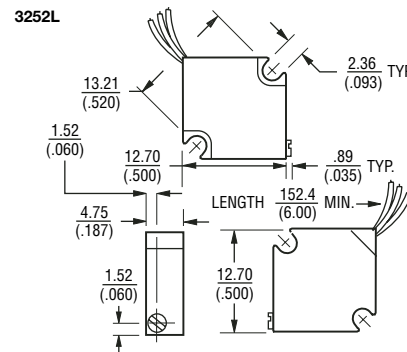
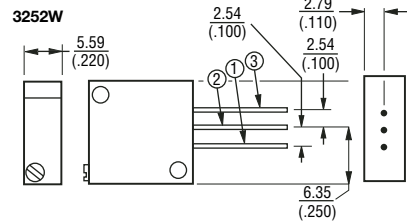
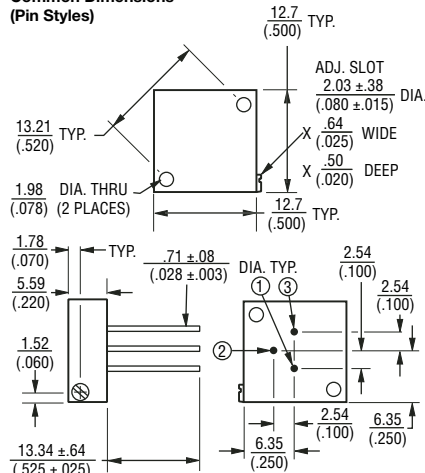
Torque12 oz-in. max.
Marking.....Manufacturer's trademark,
resistance code, wiring diagram, date code,
manufacturer's model number and style
Standard Packaging
X, P&W Styles25 pcs. per tube
L Style25 pcs. per bag
Adjustment ToolH-90



*"Fluorinert" is a registered trademark of 3M Co.
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
Specifications are subject to change without notice.
Customers should verify actual device performance in
their specific applications. REV 09/04

Product Dimensions

3252P Common Dimensions (Pin Styles)



DIMENSIONS: MM/(INCHES)
TOLERANCES: ±.25(±.010) EXCEPT WHERE NOTED

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
500,000	504
1,000,000	105
2,000,000	205

Popular distribution resistance values listed in **boldface**.
Special resistances available.

How To Order

3252 L - 1 - 103 M LF

Model _____
Style _____
Standard or Modified _____
Product Indicator _____
-1 = Standard Product
Resistance Code _____
Optional Suffix Letter _____
M = Panel Mount (Factory Installed)
Terminations _____
LF = 100 % Tin-plated (RoHS compliant)
Blank = 90 % Tin / 10 % Lead-plated
(Standard)
Consult factory for other available options.