


BOURNS®

Model 3099
Dual In-Line Potentiometer
Cermet Element
¾" Long

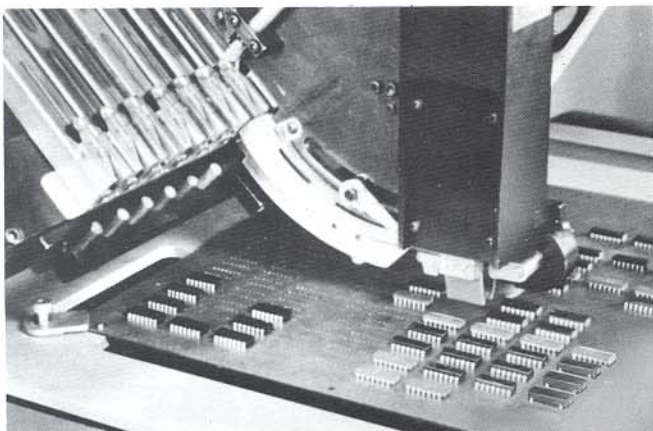
FEATURES

- Standard DIP size (TO-116).
- Compatible with DIP automatic insertion equipment.
- Sealed to meet MIL-R-22097 immersion requirements.
- Low temperature coefficient: ± 100 ppm/°C
- Stable, continuous resolution BOURNS Cermet element.

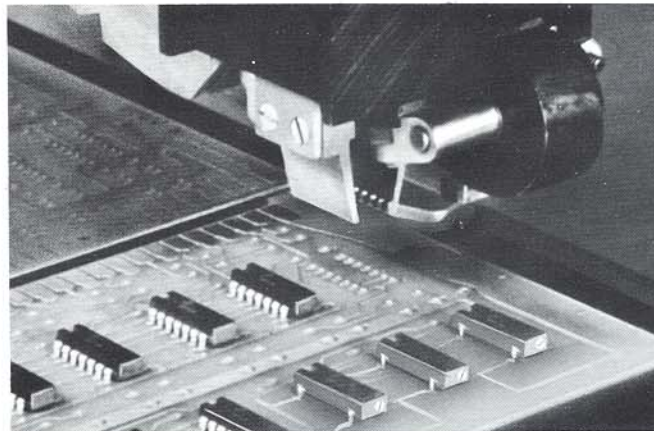
Actual Size



3099 P

DUAL IN-LINE PACKAGE FOR AUTOMATIC INSERTION


Model 3099 is designed for use with DIP automatic insertion equipment such as shown above.



DIP Potentiometers and IC's installed on printed circuit boards with same automatic equipment.

STANDARD RESISTANCES

Resistance (ohms)	Part Numbers*
10	3099P-1-100
20	3099P-1-200
50	3099P-1-500
100	3099P-1-101
200	3099P-1-201
500	3099P-1-501
1,000	3099P-1-102
2,000	3099P-1-202
5,000	3099P-1-502

SPECIAL RESISTANCES AVAILABLE FROM 10 TO 5,000,000 OHMS

Resistance (ohms)	Part Numbers*
10,000	3099P-1-103
20,000	3099P-1-203
50,000	3099P-1-503
100,000	3099P-1-104
200,000	3099P-1-204
500,000	3099P-1-504
1,000,000	3099P-1-105
2,000,000	3099P-1-205
5,000,000	3099P-1-505

*The last three digits of the part number represent the resistance in standard code.

OBSOLETE

Model 3099 TRIMPOT® Potentiometer

OBSOLETE

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Standard Resistance Range 10 to 5,000,000 ohms
(see chart on front)

Resistance Tolerance $\pm 10\%$ standard, closer tolerances available

Absolute Minimum Resistance 2% or 1 ohm, whichever is greater

Continuity Maintained for full mechanical range

Contact Resistance Variation, Maximum 3 ohms or 3%, whichever is greater

Insulation Resistance, 500 volts DC 100 megohms minimum

Resolution Infinite

ENVIRONMENTAL CHARACTERISTICS

Power Ratings:

70°C 1.0 watt (400V max.)

125°C 0 watt

Operating Temperature Range -55°C to 150°C

Temperature Coefficient Maximum per MIL-R-22097 ± 100 ppm/°C

Humidity, MIL-STD-202, Method 106 100 megohms minimum insulation resistance after removal from chamber

Vibration 20Gs

Contact Bounce 0.1 millisecond maximum

Wiper Shift, maximum 2.0%

Shock 50Gs

Contact Bounce and Wiper Shift Same as vibration

Load Life 1,000 hours, 1.0 watt at 70°C

Mechanical Life 200 cycles without discontinuity

Dielectric Strength

Room Conditions 1000 volts AC

80,000 Feet (0.8" Hg) 250 volts AC

Seal Mil Spec immersion

PHYSICAL CHARACTERISTICS

Shaft Torque 5.0 oz.-in. maximum

Markings Manufacturer's name, wiring diagram, date code, resistance code and manufacturer's part number

Appearance Legible markings, no physical defects

Mechanical Adjustment Turns nominal 20

Mechanical Stops Wiper assembly idles

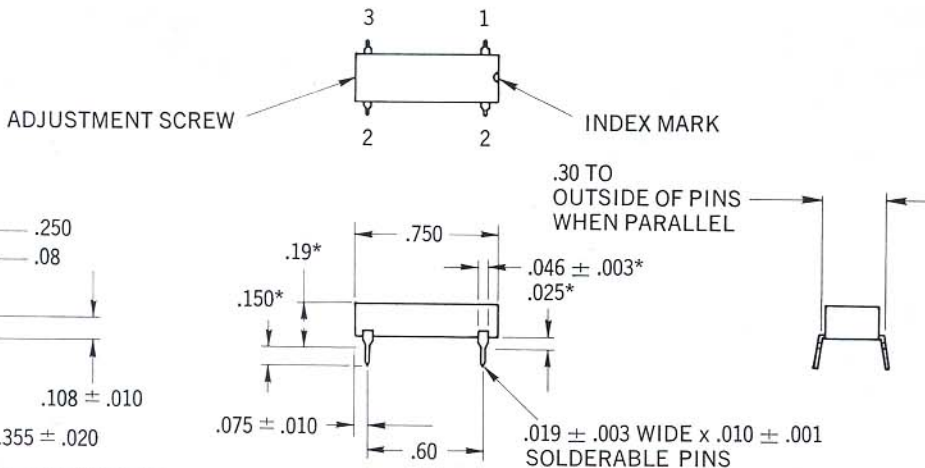
Weight Approximately 0.1 oz.

Terminals

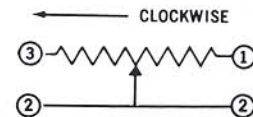
P Solderable IC type printed circuit pins

Specification Note: Closer performance tolerances can be supplied upon request. Specifications are subject to change without notice.

3099



METRIC CONVERSION	
INCHES	MILLIMETERS
.001	.025
.003	.076
.005	.127
.010	.254
.019	.483
.025	.635
.046	1.162
.075	1.905
.080	2.032
.093	2.362
.108	2.743
.150	3.810
.190	4.826
.250	6.350
.300	7.620
.355	9.017
.600	15.240
.750	19.050



ELECTRICAL ADJUSTMENT
.093 DIA. x .025 WIDE x .020 DEEP SLOT

TOLERANCES EXCEPT AS SHOWN: .XX \pm .010 .XXX \pm .005

* TYPICAL

