


BOURNS®

Model 3099
Dual In-Line Potentiometer
Cermet Element
3/4" Long

FEATURES

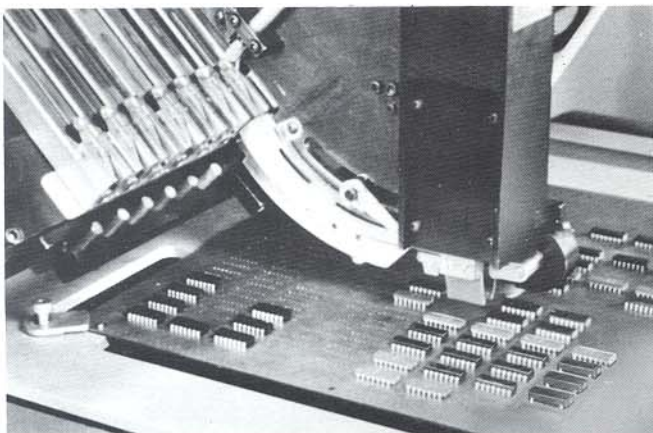
- Standard DIP size (TO-116).
- Compatible with DIP automatic insertion equipment.
- Sealed to meet MIL-R-22097 immersion requirements.
- Low temperature coefficient: ± 100 ppm/°C
- Stable, continuous resolution BOURNS Cermet element.

Actual Size

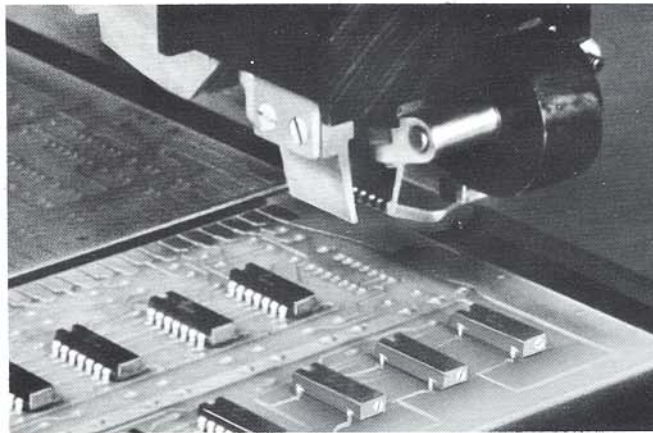


3099 P

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	±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%

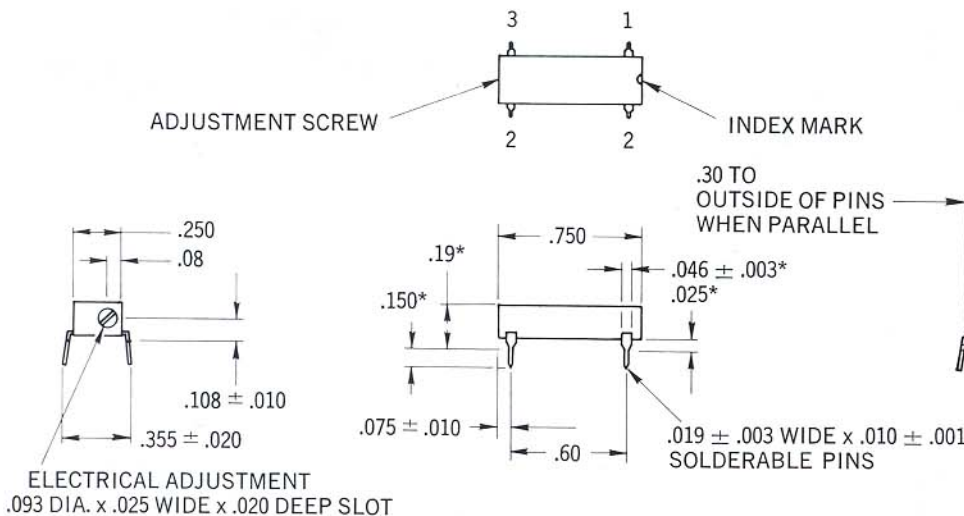
Shock	50Gs
Contact Bounce and Wiper Shift	Same as vibration
Load Life	1,000 hours, 1.0 watt at 70°C
Mechanical Life	200 cycles without discontinuity
Dielectric Strength	
Room Conditions	1000 volts AC
80,000 Feet (0.8" Hg)	250 volts AC
Seal	Mil Spec immersion

PHYSICAL CHARACTERISTICS

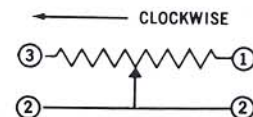
Shaft Torque	5.0 oz.-in. maximum
Markings	Manufacturer's name, wiring diagram, date code, resistance code and manufacturer's part number
Appearance	Legible markings, no physical defects
Mechanical Adjustment	Turns nominal 20
Mechanical Stops	Wiper assembly idles
Weight	Approximately 0.1 oz.
Terminals	
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



TOLERANCES EXCEPT AS SHOWN: .XX ± .010 .XXX ± .005

* TYPICAL

