

- MINIATURE .250 INCH SIZE IN TOP AND SIDE ADJUST
- RELIABLE PERFORMANCE AT LOW COMMERCIAL COST
 - DESIGNED FOR HIGH-DENSITY PACKAGING
 - SEALED FOR CLEANING IN COMMON SOLVENTS

The Model 62 is a high performance single turn cermet trimming potentiometer, ideally suited for applications requiring subminiature size coupled with low cost and dependable service.

Only .250 inches in diameter, the unit is completely encased in a non-metallic housing preventing dielectric voltage breakdown or shorting even when tightly packaged against one another.

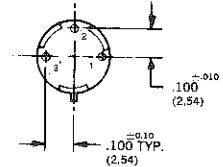
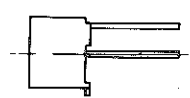
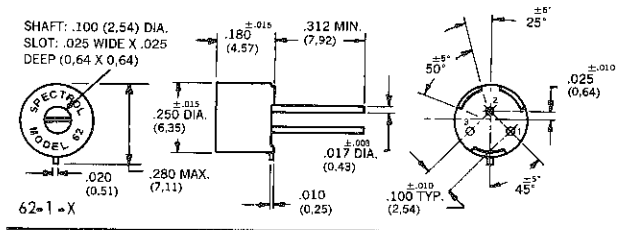
30% shorter than leading competitive styles, the Model 62 side adjust allows closer board stacking and requires only .045 square inches of mounting area.

Both top and side adjust versions feature designed-in quality and rugged construction, and are sealed for cleaning in common solvents. Standoffs and tinned pins are provided to facilitate soldering and board cleaning.



62-1-X

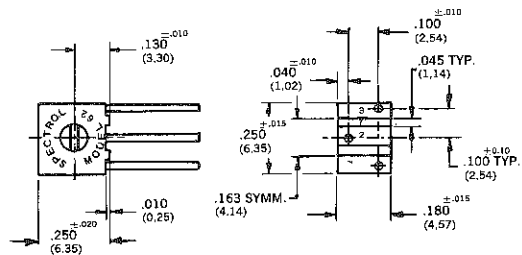
62-3-X



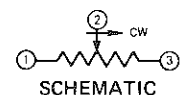
62-3-X



62-2-X



TOLERANCES: UNLESS OTHERWISE NOTED.
DECIMALS ± .005 ANGLES ± 2°
BASIC DIMENSIONS ARE IN INCHES
MILLIMETER DIMENSIONS IN PARENTHESES



SPECIFICATIONS (per MIL-R-22097 where paragraph is noted)

ELECTRICAL

ACTUAL EFFECTIVE ELECTRICAL TRAVEL	215° minimum
RESISTANCE RANGE	10 Ω to 1 megohm
RESISTANCE TOLERANCE	±20%
END RESISTANCE	1% RT or 2 Ω, whichever is greater
POWER RATING	0.75 watt at 25°C derated linearly to zero watts at 125°C, maximum voltage not to exceed 400 volts
DIELECTRIC WITHSTANDING VOLTAGE	1000 VAC at sea level, 350 VAC at 80000 feet, (24400 Meters)
INSULATION RESISTANCE	1000 megohms
TEMPERATURE COEFFICIENT OF RESISTANCE	±100 PPM/°C Maximum (100Ω -1megΩ)
CONTACT RESISTANCE VARIATION	10% or 100 ohms, whichever is greater

MECHANICAL

MECHANICAL ADJUSTMENT	270° nominal, stop to stop
SHAFT TORQUE	5.0 ounce-inch (360 gm-cm.) maximum
ROTATIONAL LIFE	200 cycles minimum, total resistance change 5% (para. 3.23)
WEIGHT	0.04 ounce (1.0 gram) maximum
STOP STRENGTH	6 ounce-inch (430 gm-cm.) minimum
RESISTANCE ELEMENT	Cermet

ENVIRONMENTAL

SALT SPRAY	96 hours (per para 3.18)		
FUNGUS RESISTANCE	Non-nutrient (per para. 3.3.1)		
TERMINAL STRENGTH	2 pounds (900 grams) minimum (per para. 3.24)		
HUMIDITY	Steady state humidity, Mil-Std-202, Method 103		
SEALED	Sealed to permit cleaning in common solvents.		
	<u>Maximum Change</u>		
	Total Resis. Setting		
THERMAL SHOCK	-55° C to +125° C (para. 3.13)	4%	2%
SHOCK	100 G's 11MS (para. 3.16)	2%	2%
VIBRATION	30 G's 10 to 2000 Hz (para. 3.17)	2%	2%
LOAD LIFE	1000 hours (para. 3.20)	5%	2%
LOW TEMPERATURE OPERATION	-55° C (para. 3.21)	2%	2%
HIGH TEMPERATURE EXPOSURE	+125° C (para. 3.22)	4%	2%

MARKING

Manufacturers name and part number,
EIA resistance code and data code.

RESISTANCE VALUES, OHMS

10	100	1,000	10,000	100,000	500,000
20	200	2,000	20,000	200,000	1 MEG
50	500	5,000	50,000	250,000	

HOW TO ORDER THE MODEL 62 The Model 62 can be ordered from this specification sheet by stating the part number as follows:

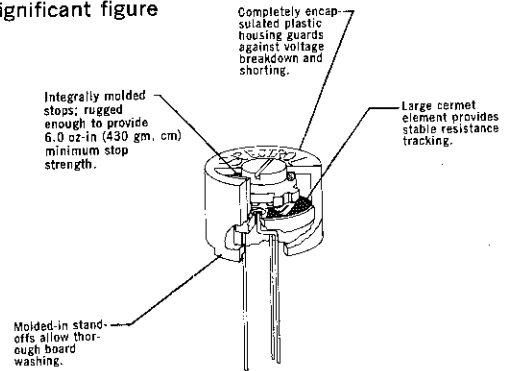
MODEL NUMBER 62 - X - X - XXX

TERMINAL DESIGNATOR STANDARD AVAILABLE FEATURES

1. **TOP ADJUST-ROUND**
Printed circuit board pins mounting unit on bottom side which is .250 dia. (6,35) Adjustment shaft axis perpendicular to plane of circuit board.
2. **SIDE ADJUST-CUBE**
Printed circuit board pins mounting unit on side which is .180 x .250. (4,57 x 6,35) Adjustment shaft axis parallel to plane of circuit board
3. **TOP ADJUST-ROUND**
Printed circuit board pins mounting unit on bottom side which is .250 dia. (6,35) Adjustment shaft axis perpendicular to plane of circuit board.
Pin grid .100 x .100 (2,54 x 2,54) (90°) RJ50 pattern.

RESISTANCE CODE

- 1 0 0
- Number of zeros following
 - Second significant figure
 - First significant figure



All characteristics will be standard as described on this data sheet. If special characteristics are required, please contact the factory or your local Spectrol representative.

SPECTROL ELECTRONICS GROUP



Spectrol Reliance Ltd.
Drakes Way
Swindon, Wiltshire, England
Swindon 21351 • TELEX: 44692

Spectrol Electronics Corporation
17070 E. Gale Ave., P.O. Box 1220
City of Industry, Calif. 91749, U.S.A.
(213) 964-6565 • TWX (910) 584-1314

SP Elettronica spa
Via Carlo Pisacane 7
20016 Pero (Milan) Italy
35 30 241 • TELEX: 330091