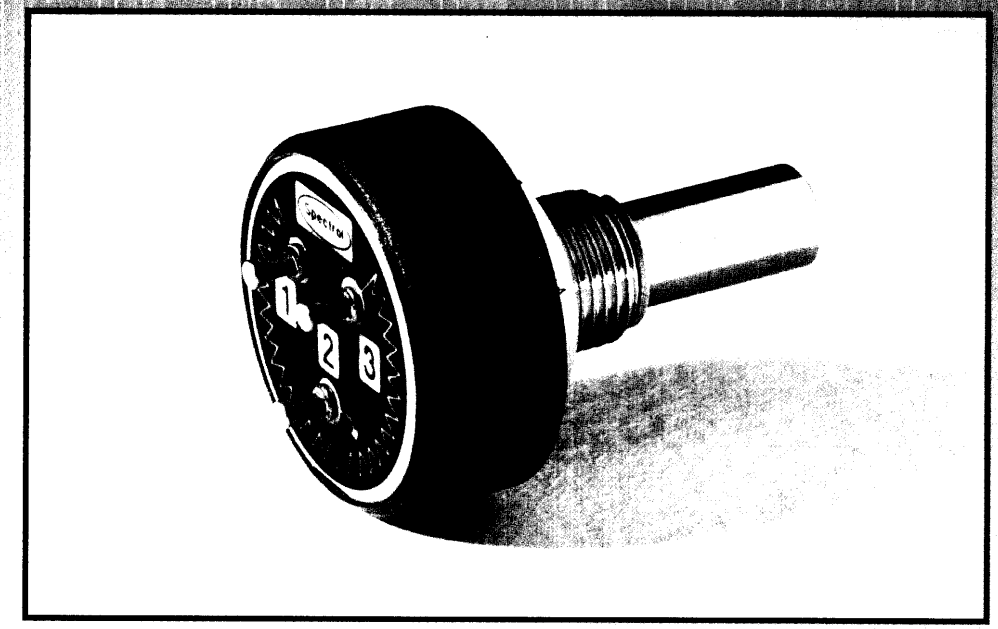


Spectrol®

868-826 to 875

MODEL 357

The Model 357 is a 7/8" diameter single turn conductive plastic potentiometer. With its compact size; advanced design technology; and versatility in a variety of applications the **357** offers a cost effective solution to your potentiometer requirements.

ELECTRICAL

Resistance:
Standard Range, 1KΩ to 50KΩ Ohms

Tolerance:
Standard, ±20%
Special to, ±10%

Linearity: (Independent)
Standard, ±2.0%
Special to, ±0.25%

Output Smoothness: 0.1% max

TCR: ±600 PPM /°C max

Power rating:
1.0 W at 70°C
Derate to 0 W at 125°C

Electrical travel:
340° ±3°

End voltage:
0.5% max

Dielectric withstanding voltage:
1,000V RMS, 50Hz

Insulation Resistance:
1000MΩ, 500VDC

MECHANICAL

Rotation: 360° continuous
(Optional mechanical stops 340°±3°)

Bearing type bushing:
Sleeve Bearing

Operating torque (Max):
starting and running
3.68 mNm (0.5 oz in)

Shaft tolerance mm max:

Runout	0.13
End Play	0.25
Radial Play	0.13

Weight: 17.5gms (0.62oz)

RESISTANCE VALUES

Ohms: 1K, 2K, 5K, 10K, 20K, 50K.

MARKING

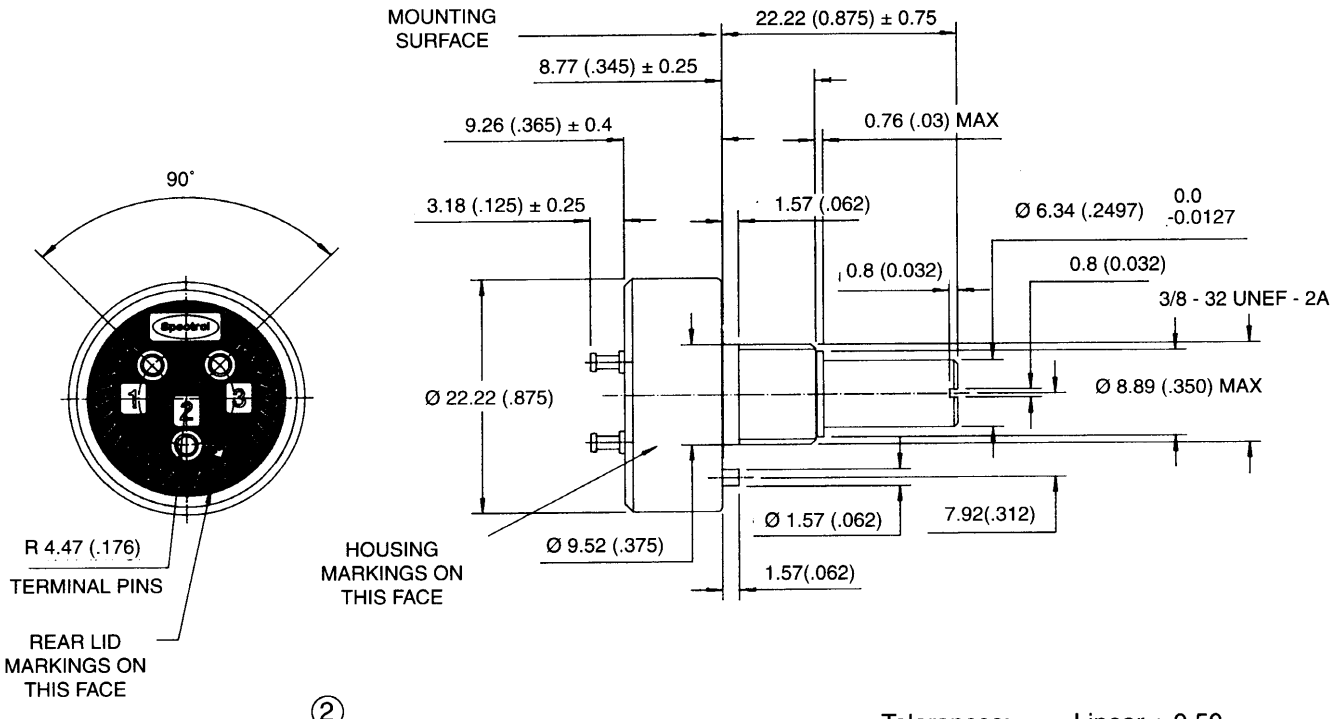
Unit identification:
Manufacturer's name and model number, IEC resistance value coding, tolerance, date code and terminal identification.

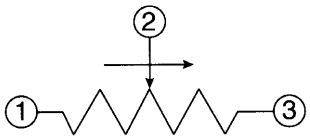
ENVIRONMENTAL

Moisture Resistant	Yes
Vibration	15g, 10 to 2,000Hz
Shock	50g
Load Life	1000 hours
Temperature Range	-55°C to +125°C
Rotational Life (Mechanical)	.10,000,000 shaft revolutions
Rotational Life (Electrical)	.2,000,000 shaft revolutions
Materials:	
Housing	Plastic, Glass Filled (Black)
Bushing	Brass, Nickel plated
Rear Lid	Alumina
Shaft	Stainless Steel
Terminals	Turret type, solder plated
Bushing Mount Hardware:	
Lockwasher, Internal Tooth	Steel, Nickel plated
Panel Nut	Brass, Nickel plated

Spectrol Reliance Limited, Garrard Way, Swindon, Wiltshire SN3 3HY Tel: (01793) 521351 Telex: 44692 Fax: (01793) 539255
Spectrol Electronics Corporation, 4051 Greystone Drive, Ontario, CA 91761 Tel: (909) 923 3313 Fax: (909) 923 3503
Spectrol Electronics GmbH, Bauschstrasse 16, D73079 Süssen, Germany, Tel: 07162/7001-2, Fax: 07162/3546

Dimensions





Tolerances: Linear ± 0.50
Angular ± 2°

Dimensions: Millimeters (inches)

Ordering Information

357 - 0 - 0 - XXX

MODEL NUMBER

FEATURES	
0	NON TURN PIN, CONTINUOUS ROTATION
1	NO NON TURN PIN, CONTINUOUS ROTATION
2	NON TURN PIN, WITH ROTATION STOPS
3	NO NON TURN PIN, WITH ROTATION STOPS

0 = 20% RT TOL., 2% LIN.

EXAMPLE
STANDARD MODEL 357 WITH NON TURN PIN, CONTINUOUS ROTATION, 20% RT TOL., AND 2% LINEARITY

STANDARD VALUES (ohms)	
RES. CODE	VALUE
102	1K
202	2K
502	5K
103	10K
203	20K
503	50K

ISO 9001
FM 26189

A Kearney-National Company

As a general policy Spectrol does not recommend the use of any of its products in life support applications where failure or malfunction of the Spectrol product can be reasonably expected to cause failure of the life support device or to significantly affect its safety or effectiveness.