



RKT-3540

WIREWOUND ELEMENT

FEATURES

- At room ambient: +25°C nominal and 50% relative Humldity nominal, except as noted.
- Consult manufacturer for complete specification details

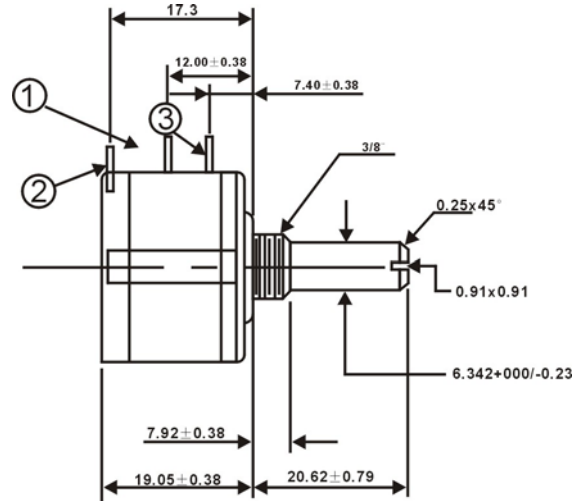
Electrical Characteristics	RKT-3540 Wirewound Element
Standard Resistance Range	100 to 100K ohms
Total Resistance Tolerance	±5%
Independent Linearity	±0.25%
Effective Electrical Angle	3600° ± 10°
Absolute Minimum Resistance/ Minimum Voltage	1 ohm or 0.2% max (Whichever is greater)
Noise/ Output Smoothness	100 ohms ENR max
Dielectric Withstanding Voltage (MIL-STD-202, Method 301) Sea Level	710VDC(101.3KPa)
Power Rating (Voltage Limited By Power Dissipation or 447VAC, Whichever is Less)	2 watts 0 watt
+70°C	
+125°C	
Insulation Resistance (500 VDC)	1000 meg ohms min
Resolution	See recommended part#

Environmental Characteristics	RKT-3540 Wirewound Element
Operating Temperature Range	+1°C to +125°C
Storage Temperature Range	-55°C to +125°C
Temperature Coefficient Over Storage Temperature Range	±50ppm/°C maximum/ unit
Vibration	15G
Wiper Bounce	0.1 millisecond maximum
Shock	50G
Wiper Bounce	0.1 millisecond maximum
Load Life	1000 hours, 2 watts
Total Resistance Shift	±2%
Rotational Life (No Load)	10,000 cycles , speed 5~10 cycles/ min Starting Torque≤50mN.m
Total Resistance Shift	±5% maximum
Moisture Resistance (MIL-STD-202, Method 103, Condition B)	±2% maximum
Total Resistance Shift	
IP Rating	IP 40

Mechanical Characteristics	
Stop Strength	53 N-cm (75 oz-in) minimum
Mechanical Angle	3600° ± 10°
Torque (Starting & Running)	0.35 N-cm (0.5 oz-in) max
Mounting	170-200 N-cm (15-18 lb-in.) max
Backlash	1.0°C maximum
Weight	Approximately 21gm
Soldering Condition Manual Soldering	96.5Sn/ 3.0Ag/ 0.5Cu solid wire or no-clean rosin cored wire; 370°C (700°F) max. for 3 seconds
Wave Soldering	96.5Sn/ 3.0Ag/ 0.5Cu solder with no-clean flux; 260°C (500°F) max. for 5 seconds
Wash Processes	Not recommended
Marking	Manufacturer's name and part number, resistance value and tolerance, linearity tolerance, wiring diagram and date code
Ganging (Multiple Section Pots)	2 cups maximum
Hardware	One lockwasher (H-37-2) and one mounting nut (H-38-2) is shipped with each potentiometer

Common Dimensions

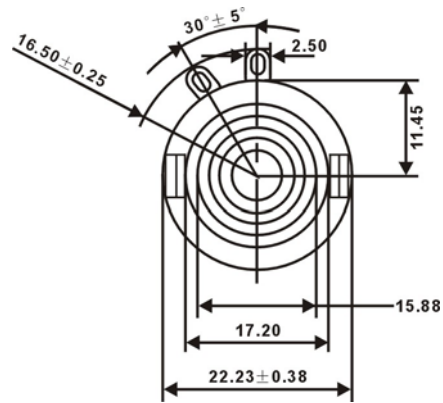
RKT-3540S-1



OPTIONAL ANTIROTATION LUG
(-91) 1.42x0.50 ON 7.4 RADIUS.
LENGTH 1.27 FROM MOUNTING

SURFACE.

(SUGGESTED PANEL HOLE 1.6 DIA.)



TOLERANCE: EXCEPT WHERE NOTED

DECIMALS: XX± $\frac{0.25}{(0.010)}$ XXX± $\frac{0.13}{(0.005)}$

FRACTIONS: ±1/64

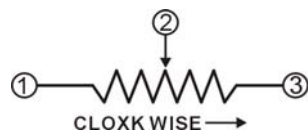
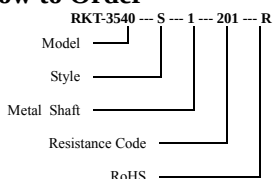
DIMENSIONS: $\frac{\text{MM}}{(\text{IN.})}$

Resistance table

RKT-3540S-1

Resistance (Ohms)	Resistance Code	Resolution (%)
200	201	0.042
500	501	0.031
1,000	102	0.027
2,000	202	0.021
5,000	502	0.021
10,000	103	0.019
20,000	203	0.014
50,000	503	0.011
100,000	104	0.008

How to Order



BOLDFACE LISTINGS ARE IN STOCK AND
READILY AVAILABLE THROUGH DISTRIBUTION

FOR SERVO MOUNT VERSION AND OTHER
OPTIONS CONSULT FACTORY.

FOR OTHER OPTIONS CONSULT FACTORY.
ROHS IDENTIFIER:

L = COMPLIANT BLANK = NON-COMPLIANT

Note: Specification are subject to change without notice.