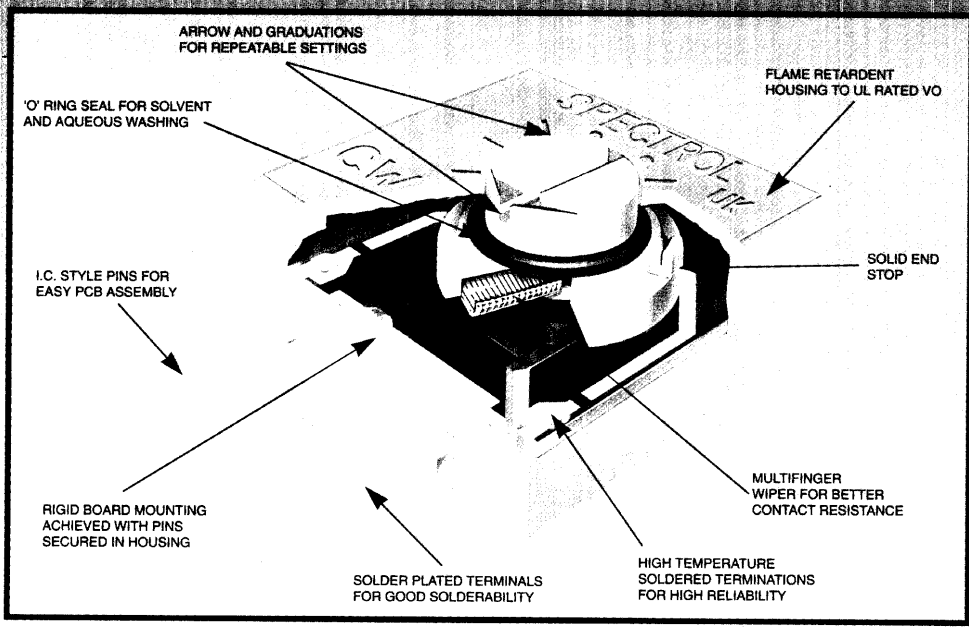




868-693 to 747

MODEL 63



A 3/8" sq (10mm) single turn cermet trimmer

The **Model 63** cermet trimmer manufactured in Europe is readily available in several pin configurations for top or side adjustment and with a choice of knob styles for finger setting. Quick adjustment is achieved with a multifinger wiper and the standard resistance range is between 10 Ohms and 2 Megohms with a tolerance $\pm 10\%$. This sealed (IEC 68-2-17) single turn trimmer is continuing to provide excellent performance as the industry standard across a broad spectrum of applications.

ELECTRICAL

- Effective travel:
270° nominal
- Resistance range:
10 Ω to 2 megohms
- Resistance tolerance:
 $\pm 10\%$
- End resistance:
2 Ω maximum
- Temperature coefficient of resistance:
100 ppm/ $^{\circ}\text{C}$, 100 Ω thru 2 megohms
0 to +250 ppm/ $^{\circ}\text{C}$, below 100 Ω
- Power rating:
0.5 watts at 70 $^{\circ}\text{C}$, derated linearly to zero watts at 125 $^{\circ}\text{C}$. Maximum voltage not to exceed 300 V.
- Dielectric withstanding voltage:
1000 VAC at sea level, 250 VAC at 80,000 feet (24,400 meters)
- Insulation resistance:
1000 megohms minimum
- Contact resistance variation:
2% or 20 Ω whichever is greater

MECHANICAL

- Stop:
Solid
- Starting torque:
35mNm max
- Weight:
0.03oz (0.85 grams) maximum
- Resistance element:
Cermet
- 2-terminal adjustability:
0.15% of RT
- 3-terminal adjustability:
0.05% of applied voltage

RESISTANCE VALUES

Ohms - 10R, 20R, 50R, 100R, 200R, 500R, 1k, 2k, 5k, 10k, 20k, 25k, 50k, 100k, 200k, 250k, 500k, 1M, 2M.

MARKING

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

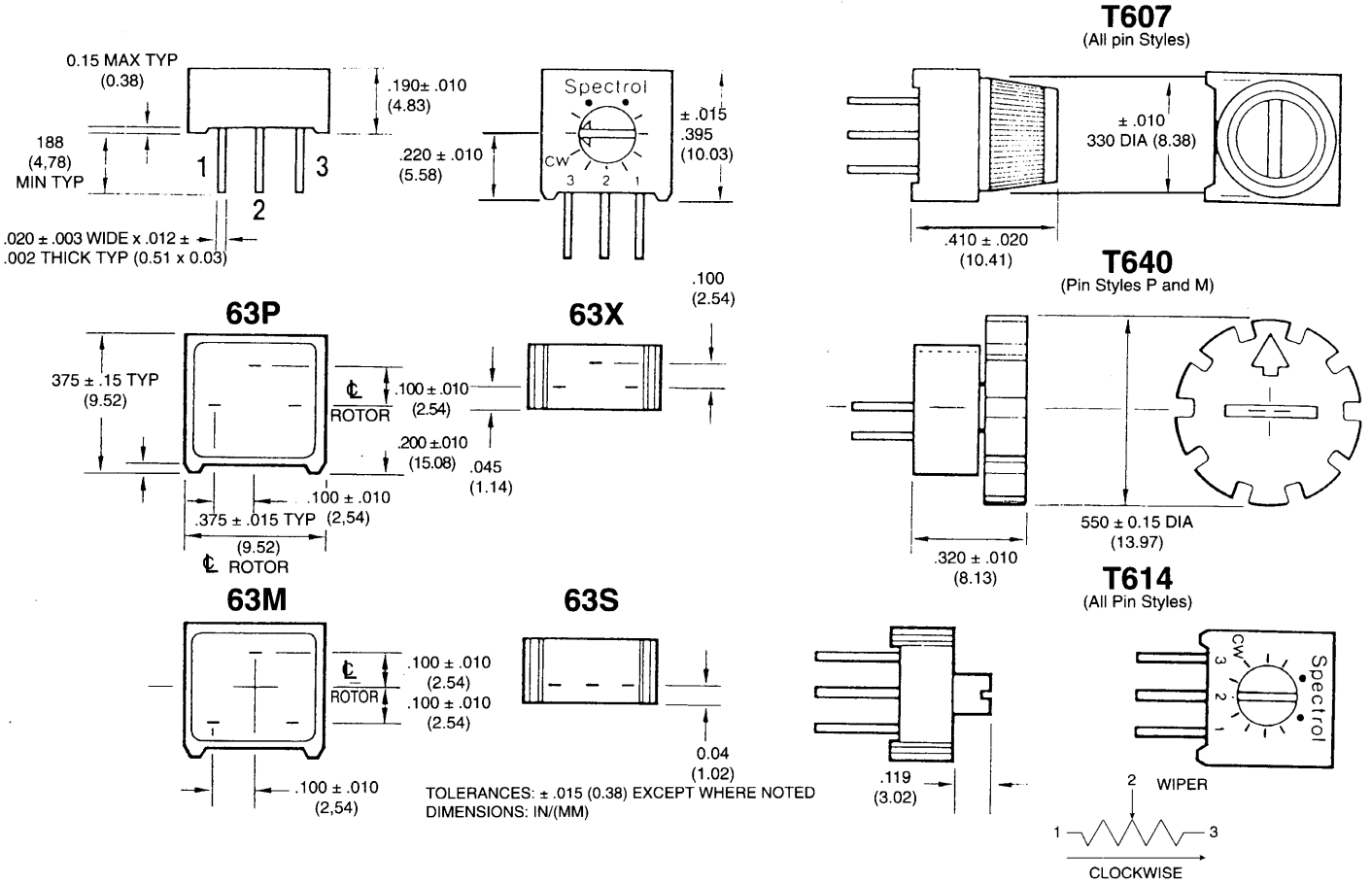
ENVIRONMENTAL

	MAX. CHANGE		1	2	3	
	ΔR	$\frac{V_{ab}}{V_{ac}}$				
Temperature range:	-55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$	2%	1%	(PARA 2.3.6)	TEST NA (IEC 68-2-14)	METHOD 107
Bump:	390 m/s ² 4000	1%	-	(PARA 2.3.3)	TEST EB (IEC 68-2-29)	NO EQUIV.
Vibration:	98 m/s ² 10 to 500Hz	1%	2%	(PARA 2.3.2)	TEST FC (IEC 68-2-6)	METHOD 204
Electrical endurance:	1000 hour	3%	-	(PARA 2.5.16)		NO EQUIV.
Soldering:	-	-	-	(PARA 2.3.7)	TEST T (IEC 68-2-20)	METHOD 208
Resistance to heat	-	1%	-	(PARA 2.3.7)	TEST TB (IEC 68-2-20A)	METHOD 210
					METHOD 1A	
Damp heat steady state	21 days	3%	-	(PARA 2.1)	TEST C (IEC 68-2-3)	METHOD 103
Sealing	85 $^{\circ}\text{C}$ for 1 min	-	-	AS IEC	TEST QC (IEC 68-2-17)	METHOD 112
Mechanical life	200 cycles	3%	-			METHOD 2
Terminal strength	2.2lbs (1kg)	min				

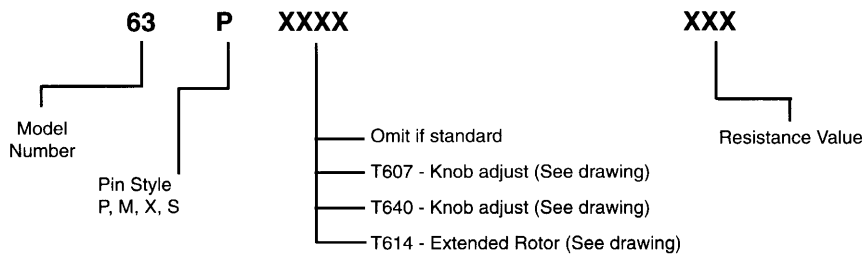
Related documents:

- 1 Per CECC 41100
- 2 Per IEC 68.1 Part
- 3 Per MIL 202F

Dimensions



Ordering Information



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.