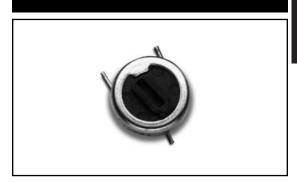
MODEL 83 1/4" Single Turn Surface Mount Cermet Trimming Potentiometer



ELECTRICAL

Standard Resistance Range, Ohms	10 to 1Meg
Standard Resistance Tolerance	±10%(<100 0hms = ±20%)
Input Voltage, Maximum	200 Vdc or rms not to exceed power rating
Slider Current, Maximum	100mA or within rated power, whichever is less
Power Rating, Watts	0.5 at 70°C derating to 0 at 150°C
End Resistance, Maximum	2 Ohms
Actual Electrical Travel, Nominal	220°
Dielectric Strength	400 Vrms
Insulation Resistance, Minimum	100 Megohms
Resolution	Essentially infinite
Contact Resistance Variation, Maximum	1% or 1 Ohms, whichever is greater

ENVIRONMENTAL

Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient, Maximum	±100ppm/°C
Operating Temperature Range	−55°C to +125°C
Thermal Shock	5 cycles, - 55°C to +125°C (1% ΔRT, 1% ΔVR)
Moisture Resistance	Ten 24 hour cycles (1% ∆RT, IR 1,000 Megohms Min.)
Shock, 6ms Sawtooth	100G's (1% ΔRT, 1% ΔVR)
Vibration	20G's, 10 to 2,000 Hz (1% ΔRT, 1% ΔVR)
High Temperature Exposure	250 hours at 125°C (2% ΔRT, 2% ΔVR)
Rotational Life	200 cycles (3% ΔRT)
Load Life at 0.5 Watts	1,000 hours at 70°C (2% ΔRT)
Resistance to Solder Heat	350°C for 3 sec. (1% ΔRT)
	260°C for 10 sec. (1% Δ RT)
	215°C for 120 sec. (1% ΔRT)

MECHANICAL

Mechanical Stops	Solid
Torque, Starting Maximum	3 ozin. (0.021 N-m)
Weight, Nominal	.03 oz. (0.85 grams)

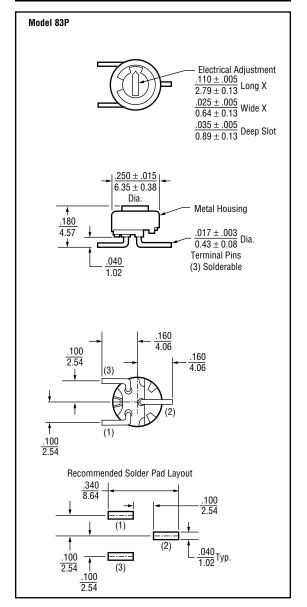
Fluorinert® is a registered trademark of 3M Company. Specifications subject to change without notice.



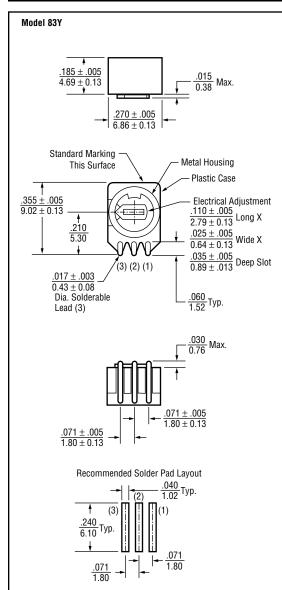
1-69

Model 83

TOP ADJUSTMENT (Inch/mm)



SIDE ADJUSTMENT (Inch/mm)



STANDARD RESISTANCE VALUES, OHMS

10 100 1K 10K 50K 250K 20 200 2K 20K 100K 500K 50 50 5K 25K 200K 1Meg	Г	4.0	400	416	1016	5016	0501/
		10	100	1K	10K	50K	250K
50 500 5K 25K 200K 1Meg		20	200	2K	20K	100K	500K
		50	500	5K	25K	200K	1Meg

Standard: Boxes

Capacity = 100 Units

Option: Tubes (83Y only)

All units oriented with #1 pin to same side.

Magazine: Width = 0.30"

Height = 0.35"

Length = 19.1"

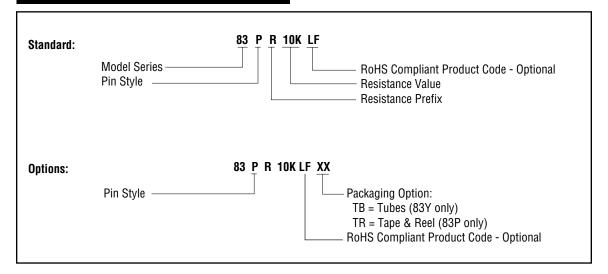
Capacity = 50 Units

Option: Embossed Tape & Reel (83P only)

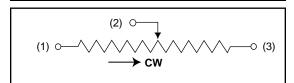
All units oriented with #1 pin to the right of the direction of feed.

Tape:	Width	=	16 mm	
	Sprocket	=	4 mm pitch	
	Capacity	=	1,000 Units	
Reel:	Diameter	=	14" (356 mm)	

ORDERING INFORMATION



CIRCUIT DIAGRAM



NOTES

Metric equivalents, based on 1 inch = 25.4mm are rounded to the same number of significant figures as in the original English units and are provided for general information only.

Tolerances unless otherwise specified: Linear = ± .01 inches (.25mm) Angular = ± 2 degrees

