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

ELECTRICAL



Standard Resistance Range, Ohms	10 to 1Meg
Standard Resistance Tolerance	±10%(<100 Ohms = ±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% Δ 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% ∆RT)
Resistance to Solder Heat	350°C for 3 sec. (1% ∆RT)
	260°C for 10 sec. (1% ∆RT)
	215°C for 120 sec. (1% Δ RT)

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.



TOP ADJUSTMENT



SIDE ADJUSTMENT

STANDARD RESISTANCE VALUES, OHMS

10	100	1K	10K	50K	250K
20	200	2K	20K	100K	500K
50	500	5K	25K	200K	1Meg

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PACKAGING

Standard:	Boxes	Capacity	=	100 units	
Option:	Tubes (83Y All units ori	′ only) iented with #1 p	in to same sid	9	
	Magazine:	Width	=	0.30"	
	-	Height	=	0.35"	
		Length	=	19.1"	
		Capacity	=	50 units	
Option:	Embossed	Tape & Reel (83	P only)		
		• •	- /	of the direction of feed	
	Таре:	Width	=	16 mm	
		Sprocket	=	4 mm pitch	
		Capacity	=	1,000 units	

ORDERING INFORMATION





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