



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Single Turn Trimmer

Model 83



Features:

- 1/4" diameter
- Single turn
- Cermet



Electrical

Standard Resistance Range, Ohms	10 to 1Meg
Standard Resistance Tolerance	$\pm 10\%$ (<100 Ohms = $\pm 20\%$)
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	± 100 ppm/°C
Operating Temperature Range	-55°C to +125°C
Thermal Shock	5 cycles, -55°C to +125°C (1% Δ RT, 1% Δ VR)
Moisture Resistance	Ten 24 hour cycles (1% Δ RT, IR 1,000 Megohms Min.)
Shock, 6ms Sawtooth	100G's (1% Δ RT, 1% Δ VR)
Vibration	20G's, 10 to 2,000 Hz (1% Δ RT, 1% Δ VR)
High Temperature Exposure	250 hours at 125°C (2% Δ RT, 2% Δ VR)
Rotational Life	200 cycles (3% Δ RT)
Load Life at 0.5 Watts	1,000 hours at 70°C (2% Δ RT)
Resistance to Solder Heat	350°C for 3 sec. (1% Δ RT) 260°C for 10 sec. (1% Δ RT) 215°C for 120 sec. (1% Δ RT)

Mechanical

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

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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Packaging Information

Standard: Boxes
Capacity = 100 Units

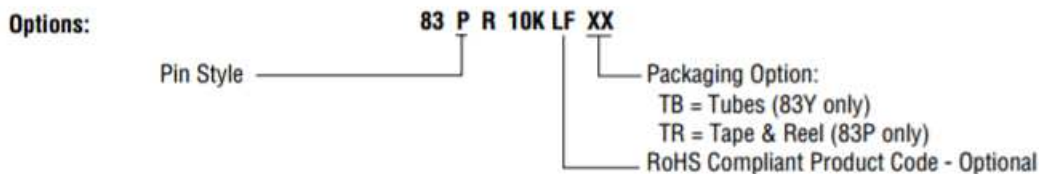
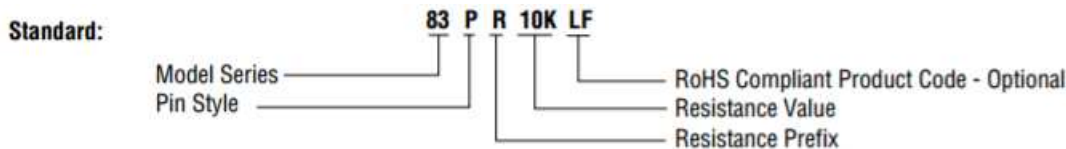
Option: Tubes (83Y only)
All units oriented with #1 pin to same side.

Magazine:	Width	=	0.30"
	Height	=	0.35"
	Length	=	19.1"
	Capacity	=	50 Units

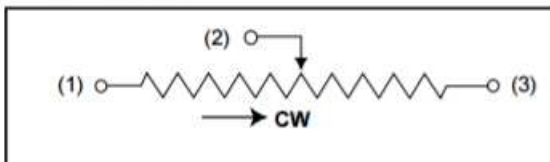
Option: Embossed Tape & Reel (83P only)
All units oriented with #1 pin to the right of the direction of feed.

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

Ordering Information



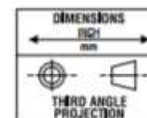
CIRCUIT DIAGRAM



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



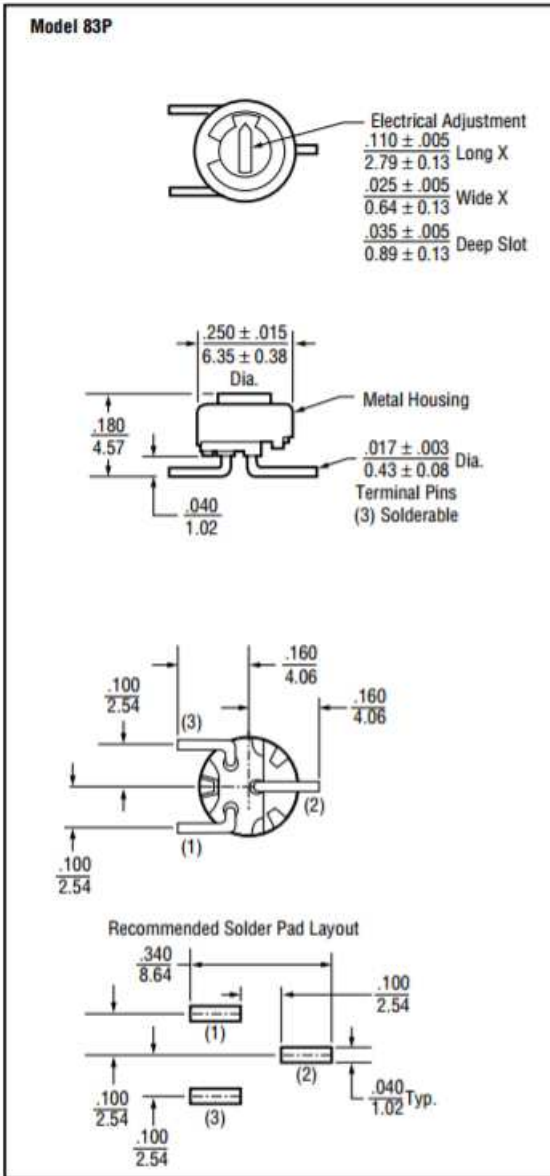
Single Turn Trimmer

Model 83

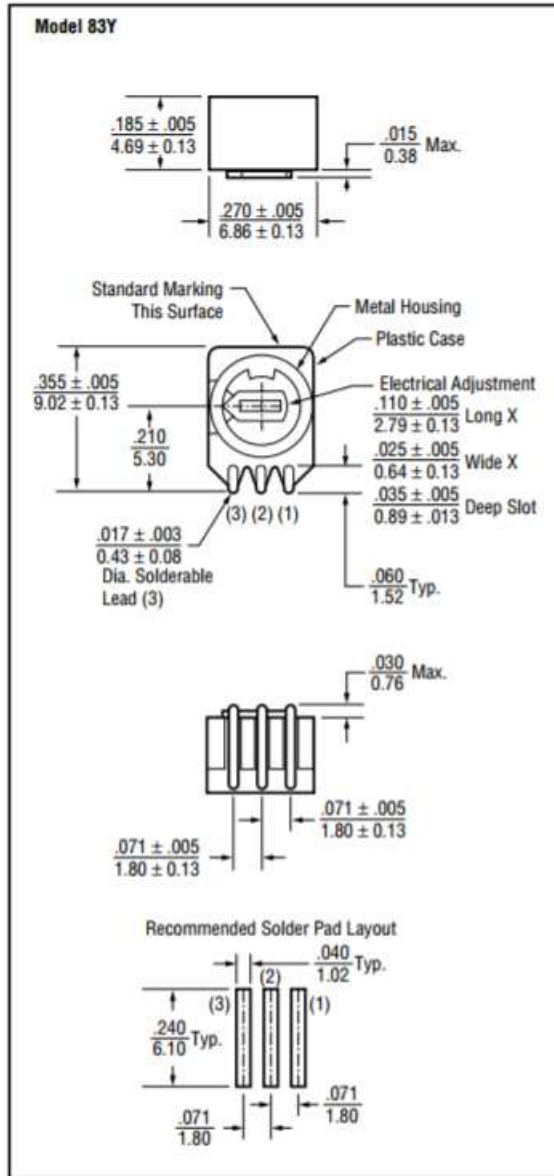


Outline Drawings

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	500	5K	25K	200K	1Meg

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