# **Single Turn Trimmer**

## Model 82



#### Features:

- 1/4" diameter
- Single turn
- Cermet



## **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 125°C
End Resistance, Maximum	2 Ohms
Actual Electrical Travel, Nominal	220°
Dielectric Strength	600 Vrms
Insulation Resistance, Minimum	1,000 Megohms
Resolution	Essentially infinite
Contact Resistance Variation, Maximum	1% or 1 Ohm, 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% $\Delta$ RT, IR 100 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	260°C for 10 sec. (1% ΔRT)

#### **Mechanical**

Mechanical Stops	Solid
Torque, Starting Maximum	3 ozin. (0.021 N-m)
Weight, Nominal	.02 oz. (0.60 grams)

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## **Packaging Information**

Standard: Boxes

Capacity = 50 Units (82PA, 82PF)

100 Units (All other styles)

Option: Tubes

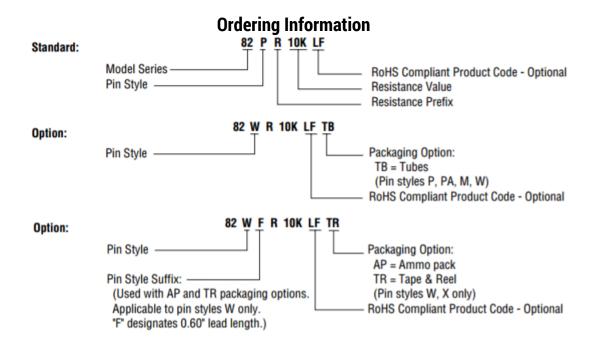
All units oriented with #1 pin to same side.

	Pin Style		PA	P,M,W
Magazine	Width	=	0.28"	0.34"
	Height	=	0.94"	0.65"
	Length	=	15.6"	27.5"
	Capacity	=	50 Units	100 Units

Option: Tape & Reel, Ammo Pack (Available for 82W Only)

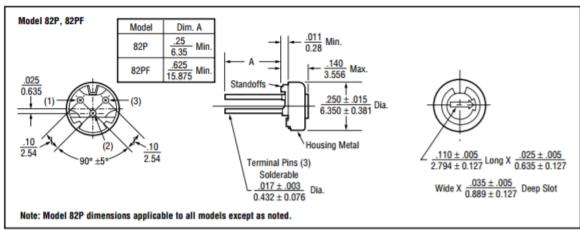
All units oriented with #1 pin to the right of the direction of feed.

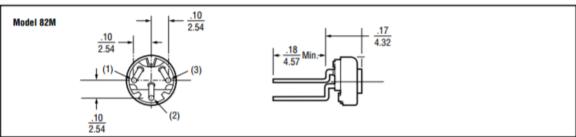
	Seat Plane to Centerline of Sprocket Hole	=	.71" (18.03 mm)
Таре	Width	=	18 mm
	Sprocket	=	Single Hole .50" spacing
	Capacity	=	1,000 Units
Reel	Diameter	=	14" (356 mm)
Ammo	Tape Fold	=	12" (305 mm)
	Box	=	1.5" x 13" x 10"

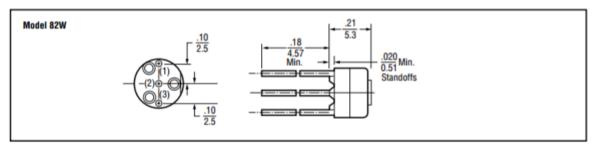




## **Outline Drawings-Top Adjustment**







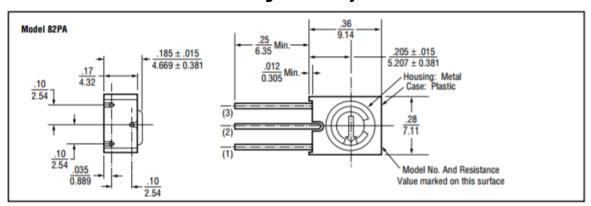
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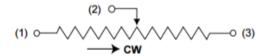
## **Outline Drawings-Side Adjustment**



### **Standard Resistance Values, Ohms**

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

## **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



### **Mouser Electronics**

**Authorized Distributor** 

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#### TT Electronics:

82PR20K 82PR2K 82MR20K 82PR5K 82PR20K 82PR20K 82MR100KLF 82MR10KLF 82MR1KLF 82MR1MEGLF
82MR200LF 82MR25KLF 82MR2KLF 82MR500LF 82MR500KLF 82MR50KLF 82PR20LF 82PR20KLF
82PAR5KLFTB 82PR100LF 82PR100KLF 82PR10KLF 82PR10KLF 82PR50LF 82PR20LF 82PR200KLF
82PR20KLF 82PR250KLF 82PR25KLF 82PR2KLF 82PR50LF 82PR500KLF 82PR50KLF 82PR10KLFTB 82PAR10KLFTB 82PAR10KLFTB 82PAR10KLFTB 82PAR10KLFTB 82PAR20KLFTB 82PAR10KLF 82WR20LF 82PAR10KLF 82WR20LF 82PAR20KLFTB 82PAR20KLF 82PAR20KLFTB 82PAR20KLF 82PAR20KLFTB 82PAR20KLF 82PAR2