

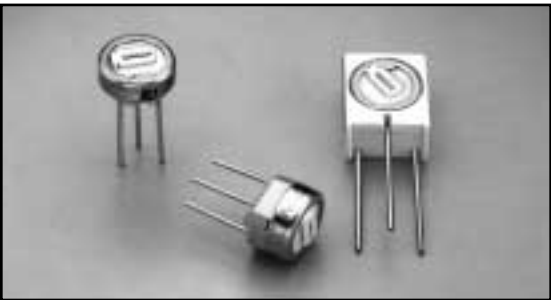
MODEL 82

1/4" Diameter

Single Turn

Cermet Trimming

Potentiometer



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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 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	$\pm 100\text{ppm}/^\circ\text{C}$
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% ΔRT , 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

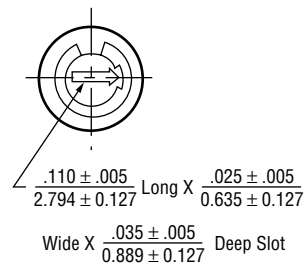
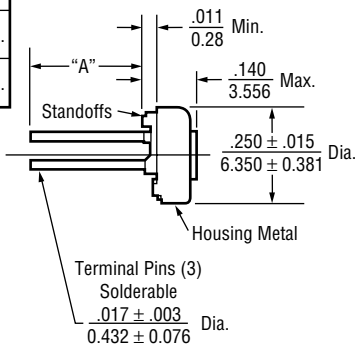
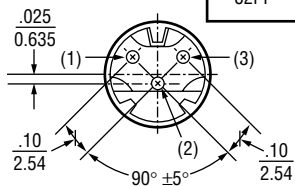
Mechanical Stops	Solid
Torque, Starting Maximum	3 oz.-in. (0.021 N-m)
Weight, Nominal	.02 oz. (0.50 grams)

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

TOP ADJUSTMENT

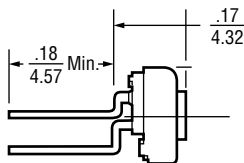
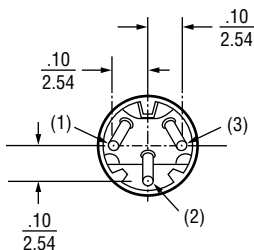
Model 82P, 82PF

Model No.	"A" Dim.
82P	$\frac{.25}{6.35}$ Min.
82PF	$\frac{.625}{15.875}$ Min.

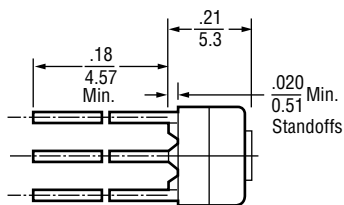
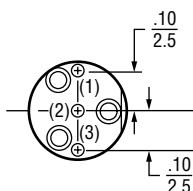


Note: Model 82P dimensions applicable to all models except as noted

Model 82M

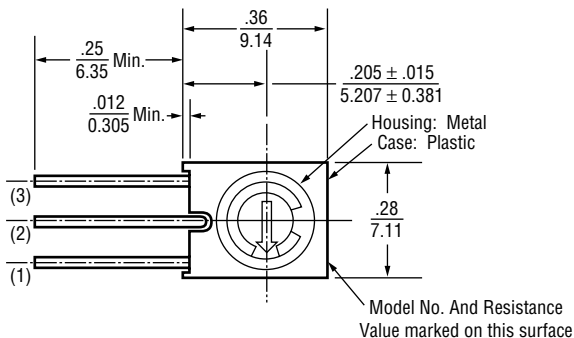
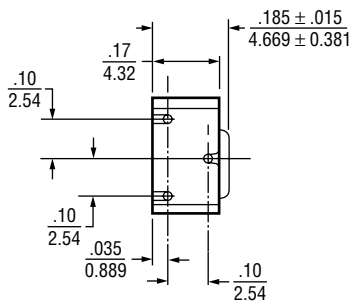


Model 82W



SIDE ADJUSTMENT

Model 82PA



STANDARD RESISTANCE VALUES, OHMS

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

PACKAGING

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

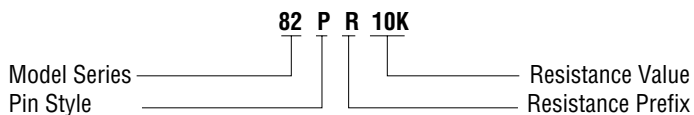
Option: Tape & Reel, Ammo Pack (Available for 82W Only)

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

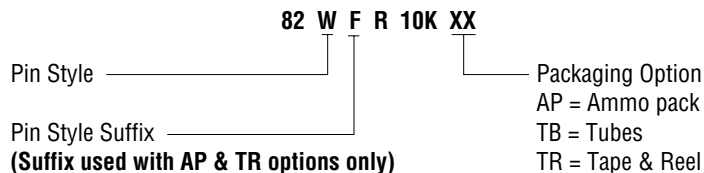
	Seat Plane to Centerline of Sprocket Hole	=	.71" (18.03 mm)
Tape	Width	=	18 mm
	Sprocket	=	Single Hole .50" spacing
	Capacity	=	1,000 units
Reel	Diameter	=	14" (356 mm)
Ammo	Tape Fold	=	12" (305 mm)
	Box	=	1.5" x 13" x 10"

ORDERING INFORMATION

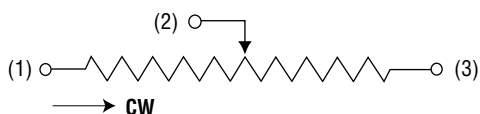
Standard:



Option:



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 = $\pm .01$ inches (.25mm)
Angular = ± 2 degrees

