Multi-Turn Trimmer

Model 78

Features:
- 1-1/4" rectanglular
- Cermet
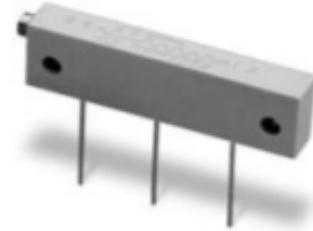
Electrical

Standard Resistance Range, Ohms	10 to 2Meg
Standard Resistance Tolerance	±10% (<100 Ohms = ±20%)
Input Voltage, Maximum	300 Vdc or rms not to exceed power rating
Slider Current, Maximum	100mA or within rated power, whichever is less
Power Rating, Watts	1.0 at 70°C derating to 0 at 125°C
End Resistance, Maximum	2 Ohms
Actual Electrical Travel, Turns, Nominal	22
Dielectric Strength	500 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% ΔRT, 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 1.0 Watts	1,000 hours at 70°C (2% ΔRT)
Resistance to Solder Heat	260°C for 10 sec. (1% ΔRT)

Mechanical

Mechanical Stops	Clutch Action, both ends
Torque, Starting Maximum	5oz.-in. (0.035 N-m)
Weight, Nominal	.09 oz. (2.6 grams)

Packaging Information

Standard: Boxes

Capacity = 25 Units

Ordering Information

78 P BW R 10K LF

Model Series ——————
Pin Style ——————

RoHS Compliant Code - optional
Resistance Value
Resistance Prefix
Optional Panel
Mount Adapter
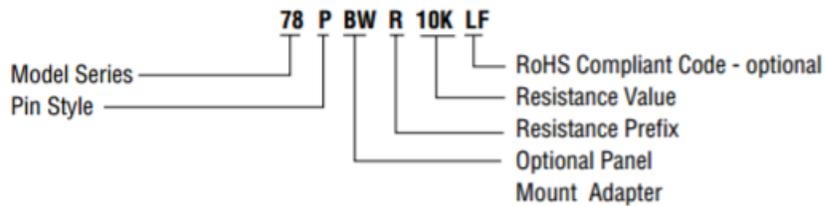
Note: Use '56BW' to order panel mount adapter without trimmer

Standard Resistance Values

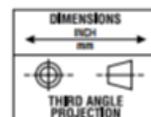|				
10	200	5K	50K	500K
20	500	10K	100K	1Meg
50	1K	20K	200K	2Meg
100	2K	25K	250K	

CIRCUIT DIAGRAM

(2)
(1) ———/\/\/\/\/\/\——— (3)
⟶ CW
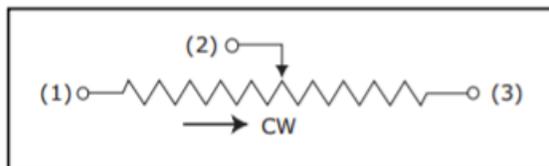
NOTES

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:
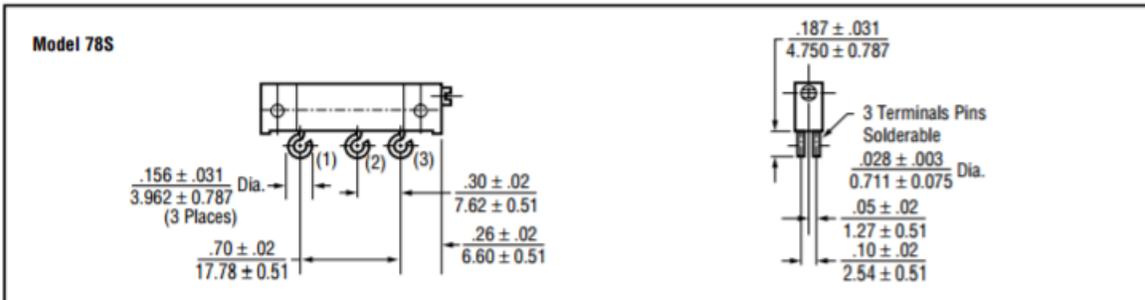Linear = ± .01 inches (.25mm)
Angular = ± 2 degrees

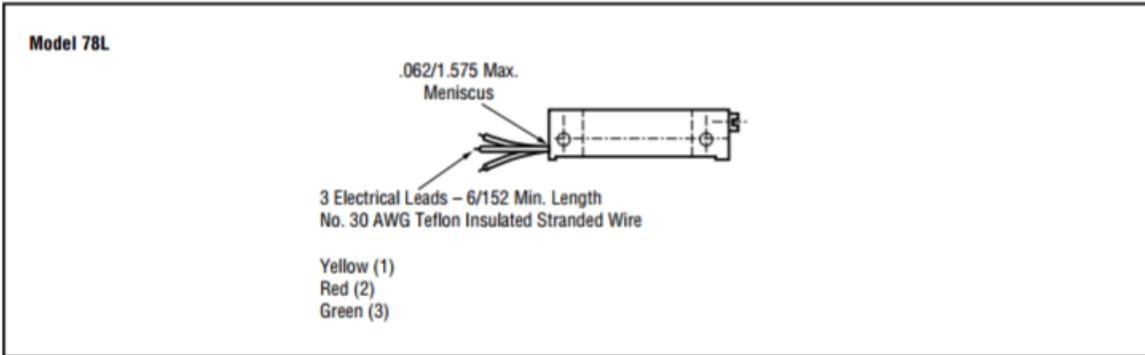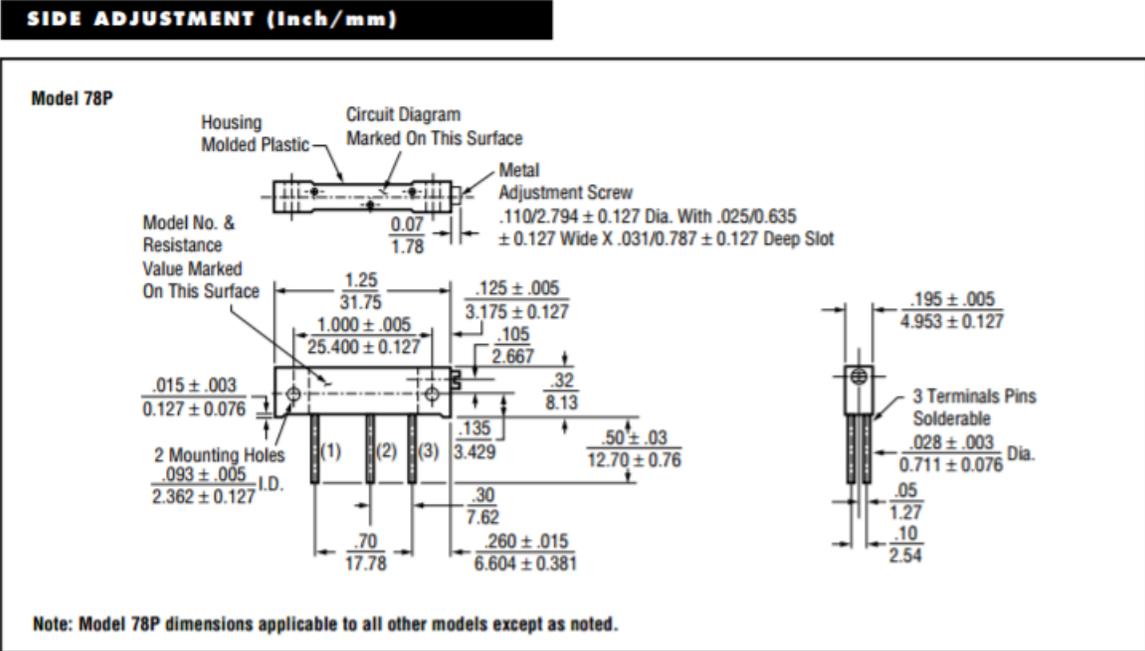DIMENSIONS
INCH
mm

THIRD ANGLE PROJECTION

Multi-Turn Trimmer

Model 78

Outline Drawings

SIDE ADJUSTMENT (Inch/mm)

Model 78P

Note: Model 78P dimensions applicable to all other models except as noted.

Model 78L

.062/1.575 Max. Meniscus

3 Electrical Leads – 6/152 Min. Length
No. 30 AWG Teflon Insulated Stranded Wire

Yellow (1)
Red (2)
Green (3)

Model 78S

Multi-Turn Trimmer

Model 78

Outline Drawings

PANEL MOUNT ADAPTER (Inch/mm)

Model 56BW (Adapter Only)

Metal Bushing Mount
Brass-Nickel Plated

Mounting Surface

$\frac{.125 \pm .005}{3.175 \pm 0.127}$ Dia. Hole

Use .22/5.613 Dia. Min. Mounting Hole

Lock Washer, Panel Nut, Sealing Washer
& Mounting Screws Provided

$\frac{.312 \pm .015}{7.925 \pm 0.381}$

$\frac{1.56}{3.962}$ Max.

$\frac{.437}{11.100}$ Max.

Model 78LBW (Adapter Pre-Assembled with Trimmer)

$\frac{0.94}{2.388}$ Max.

$\frac{1.344}{34.138}$ Max.

$\frac{.250 \pm .015}{6.350 \pm 0.381}$

12-28 UNF-2A Thread

Model 78SBW (Adapter Pre-Assembled with Trimmer)

$\frac{0.94}{2.388}$ Max.

$\frac{1.344}{34.138}$ Max.

$\frac{.250 \pm .015}{6.350 \pm 0.381}$

(1) (2) (3)

12-28 UNF-2A Thread

$\frac{.344 \pm .031}{8.738 \pm 0.787}$

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TT Electronics](#):

 7386R10KL.25 7386R1KL.25 7386R100L.5 7386R10KL.5 7386R1KL.5 7386R20KL.25 7386R20KL.5
7386R2KL.25 7386R500L.25 7386R500L.5 7386R5KL.25 7386R5KL.5 38PLAAR2KLF20 7386R200L.5
78SBWR200KLF 39PRCAR50KLF20 39PNCBR5KLF10 39WNBBR10KLF20 39PNBCR1MEGLF20
39PNBAR500KLF10 39PNCAR1KLF10 39WRCAR1KLF30 39WLBBR50KLF20 39PLBBR500KLF10
39PRAAR100KLF20 39WNABR200KLF30 39PNACR50KLF30 39PLCAR500LF30 39PLCAR100KLF20
39PNAAR1MEGLF30 39PNCAR500LF10 39PRBCR50KLF20 39WRBCR500LF10 39WNCCR500LF30
39WNABR20KLF10 39WNCBR500LF20 39WNCBR5KLF10 39WNAAR1MEGLF20 39WNCAR2KLF10
39WNAAR20KLF30 38PLACR500LF30 38PMACR5KLF10 38PLAAR200KLF30 38WLBCR500LF20
38PLABR1KLF10 38WLABR100KLF10 38WMABR50KLF30 38WKABR200KLF10 38WMBBR10KLF20
38WLACR1MEGLF30 38WKAAR50KLF10 38WMABR1MEGLF10 38PLACR500KLF20 38WMBCR200KLF30