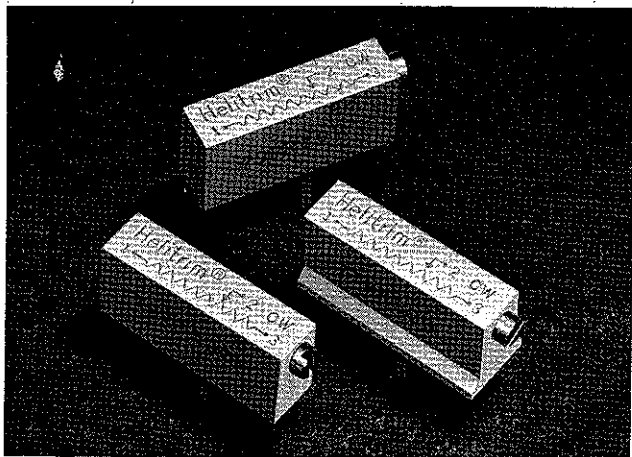


Models 76, 77, 79 3/4" (19,050 mm) Rectangular 15-Turn Cermet Industrial Grade

Available from: Distributor



Helitrim® Models 76, 77 & 79 trimming potentiometers provide:

- ± 100 ppm/°C maximum unit tempco..
- 0.75 watt power rating.
- Essentially infinite resolution.
- Rugged cermet resistance element.
- Voltage adjustability within 0.05%.
- Excellent performance under environmental extremes.
- Wiper idles at ends, preventing damage.
- Dependable, long term performance.
- Elements free from sudden failure.

SPECIFICATIONS

General

Ambient temperature range, °C	—55 to 125
Resistance element	cermet
Adjustment turns, nominal	15
Sealing	meets immersion test of MIL-R-22097
Tempco	± 100 ppm/°C*
*Guaranteed maximum over the ambient temperature range of —55° to 105°C	

Electrical

Range of std. resistance values, ohms	10 to 2M
Standard resistance tolerance	100Ω thru 500KΩ, $\pm 10\%$ other values, $\pm 20\%$
Input voltage, maximum	200V DC/RMS but not to exceed power rating.
Slider current, maximum	100 mA or within power rating, whichever is less.
Power rating, watts	0.75 at 25°C derating to 0 at 125°C
End resistance, maximum	2Ω
Actual electrical travel, turns, nominal	15
Dielectric strength	500V RMS
Insulation resistance	100MΩ
Resolution	essentially infinite

Mechanical

Stops	clutch action
Starting torque, maximum	8 oz-in. (0,056 N*m)
Weight, nominal	0.05 oz. (1,42 gm)

Standard Resistance Values, Ohms

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

Environmental

(All trimming potentiometers will perform satisfactorily under the following environmental stresses.)

Temperature range	—55 to 125°C
Thermal shock	5 cycles, —55 to 125°C
Shock	100 g's
Vibration	20 g's, 10 to 2000Hz
Moisture resistance	Ten - 24 hr. cycles
Temperature storage	250 hrs. at 125°C
Rotational life	200 cycles
Load life at 0.75 watt	1000 hrs. at 25°C

MODEL NO., RESISTANCE VALUE
MARKED ON THIS SURFACE

Technical drawing of a slider assembly. The drawing includes a top view and a side view. The top view shows a rectangular slider with three pins labeled (1) CCW, (2) SLIDER, and (3) CW. Dimensions for the top view include a total width of 17.78 ± 0.25 , a distance from the left edge to the center of pin (2) of $7.0 \pm .01$, a distance between pins (2) and (3) of 7.62 ± 0.25 , and a distance from the center of pin (3) to the right edge of $.30 \pm .01$. The side view shows the slider's profile with a total height of 8.636 ± 0.381 , a distance from the bottom to the top of the slider body of 6.604 ± 0.381 , a distance from the bottom to the top of the pin (3) of 6.604 ± 0.381 , a distance from the bottom to the top of the pin (2) of 6.604 ± 0.381 , and a distance from the bottom to the top of the pin (1) of 6.604 ± 0.381 . The drawing also includes a detail view of a pin with a diameter of $.10 \pm .01$ and a length of 2.54 ± 0.25 . The drawing is labeled with dimensions in inches and millimeters.

Dimensions (inches):

- Overall width: 17.78 ± 0.25
- Distance from left edge to center of pin (2): $7.0 \pm .01$
- Distance between pins (2) and (3): 7.62 ± 0.25
- Distance from center of pin (3) to right edge: $.30 \pm .01$
- Overall height: 8.636 ± 0.381
- Distance from bottom to top of slider body: 6.604 ± 0.381
- Distance from bottom to top of pin (3): 6.604 ± 0.381
- Distance from bottom to top of pin (2): 6.604 ± 0.381
- Distance from bottom to top of pin (1): 6.604 ± 0.381
- Pin diameter: $.10 \pm .01$
- Pin length: 2.54 ± 0.25

Labels:

- (1) CCW
- (2) SLIDER
- (3) CW
- SOLDERABLE TERMINAL PINS (3)
- $.028 \pm .003 / .0711 \pm 0.076$
- $.010 / .0254$ THICK

MODEL NO., RESISTANCE VALUE
MARKED ON THIS SURFACE

Diagram illustrating the dimensions and components of a three-pin connector assembly.

Top View Dimensions:

- Overall width: $12,70 \pm 0,25$
- Pin (1) CCW width: $.50 \pm .01$
- Pin (2) SLIDER width: $.20 \pm .01$
- Pin (3) CW width: $.20 \pm .01$
- Distance between Pin (2) and Pin (3): $5,08 \pm 0,25$
- Distance from Pin (3) to right edge: $.125 \pm .015$
- Overall distance from Pin (1) to right edge: $3,175 \pm 0,381$
- Distance from top edge to Pin (1): $9,144 \pm 0,381$
- Distance from top edge to Pin (2): $2,032 \pm 0,381$
- Distance from top edge to Pin (3): $2,032 \pm 0,381$
- Distance from Pin (3) to bottom edge: $5,080 \pm 0,635$
- Distance from Pin (2) to bottom edge: $2,00 \pm .025$
- Distance from Pin (1) to bottom edge: $.080 \pm 0,15$

Bottom View Dimensions:

- Overall width: $19,050 \pm 0,381$
- Distance from left edge to Pin (1): $0,76 \pm 0,25$
- Distance from left edge to Pin (2): $1,02 \pm 0,25$
- Distance from left edge to Pin (3): $.03 \pm .01$
- Distance from Pin (3) to right edge: $.750 \pm .015$
- Distance from Pin (3) to bottom edge: $.15 \pm .01$
- Distance from Pin (2) to bottom edge: $3,81 \pm 0,25$
- Distance from Pin (1) to bottom edge: $.04 \pm .01$

Labels and Notes:

- (1) CCW
- (2) SLIDER
- (3) CW
- SOLDERABLE TERMINAL PINS (3)
- .040/.016 WIDE X .010/.0254 THICK
- TYP.

MODEL NO., RESISTANCE VALUE
MARKED ON THIS SURFACE —

Top View Dimensions:

- Overall Width: $1,524 \pm 0,381$
- Total Height: $9,144 \pm 0,381$
- Pin (1) CCW Height: $.360 \pm .015$
- Pin (2) SLIDER Height: $.280 \pm .015$
- Pin (3) CW Height: $.200 \pm .025$
- Pin Spacing (1-2): $.20 \pm .01$
- Pin Spacing (2-3): $.50 \pm .01$
- Pin Spacing (1-3): $12,70 \pm 0,25$
- Distance from Right Edge to Pin (3): $.125 \pm .015$
- Distance from Right Edge to Pin (2): $3,175 \pm 0,381$
- Base Thickness: $.02 \pm .01$ TYP.
- Base Thickness: $.051 \pm 0,25$

Bottom View Dimensions:

- Overall Length: $19,050 \pm 0,381$
- Left Flange Thickness: $.10 \pm .01$
- Left Flange Width: $2,54 \pm 0,25$
- Internal Feature Width: $.04 \pm .01$
- Internal Feature Position: $1,02 \pm 0,25$
- Right Flange Width: $.03 \pm .01$
- Right Flange Position: $0,76 \pm 0,25$
- Internal Feature Depth: $.750 \pm .015$

Labels:

- (1) CCW
- (2) SLIDER
- (3) CW
- SOLDERABLE TERMINAL PINS (3)
- .040/.016 WIDE X .010/.0254 THICK

5 Trimmers