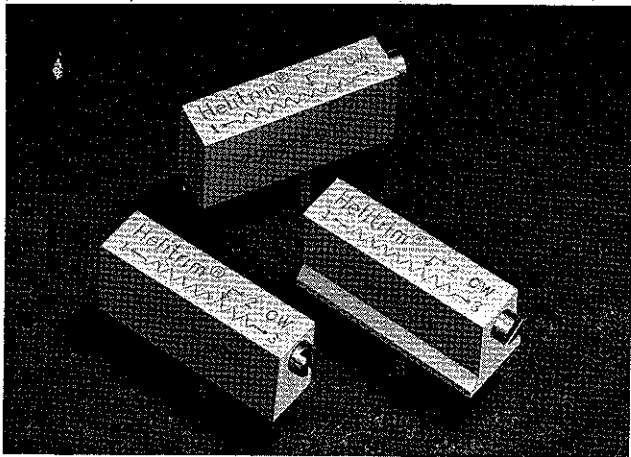


# Models 76, 77, 79 3/4" (19,050 mm) Rectangular 15-Turn Cermet Industrial Grade

Available from: Distributor



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

- $\pm 100$  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	.....	$\pm 100$ 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

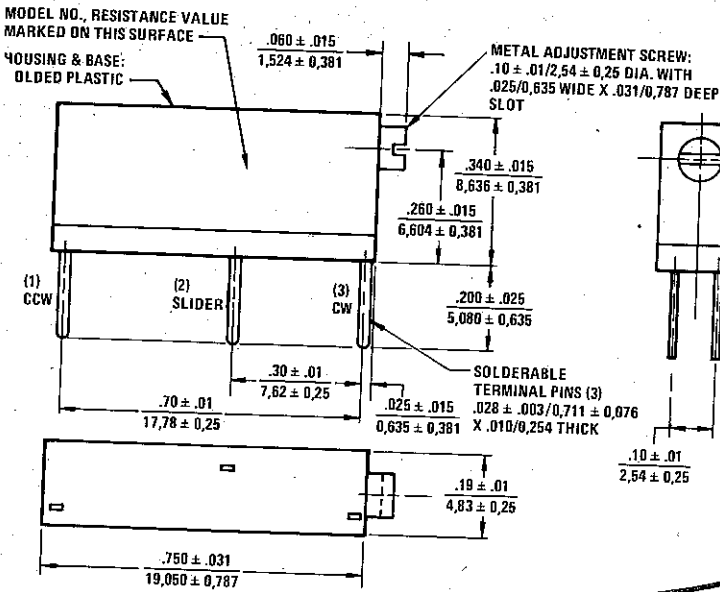
10	100	1K	10K	100K	1M
20	200	2K	20K	200K	2M
—	—	—	25K	250K	—
50	500	5K	50K	500K	—

### Environmental

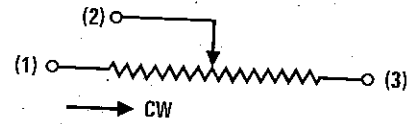
(All trimming potentiometers will perform satisfactorily under the following environmental stresses.)

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

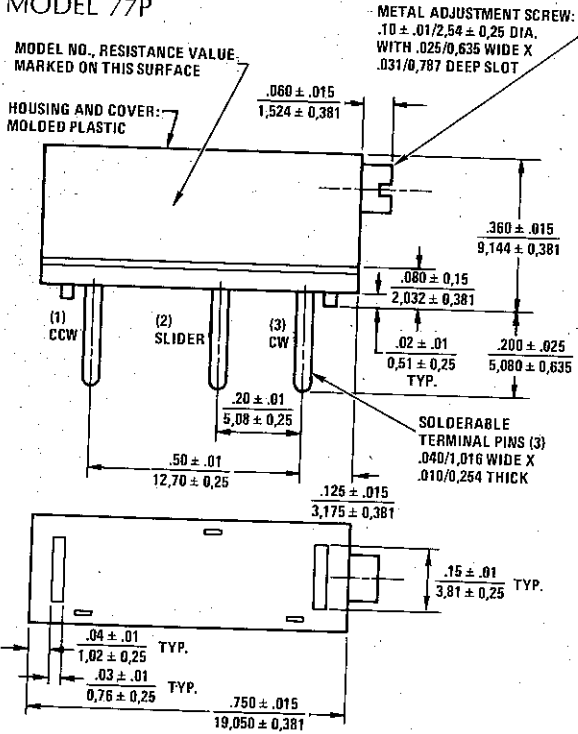
### MODEL 76P



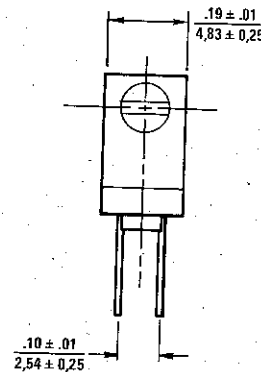
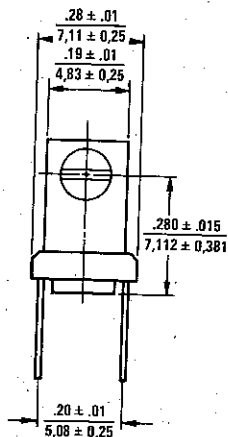
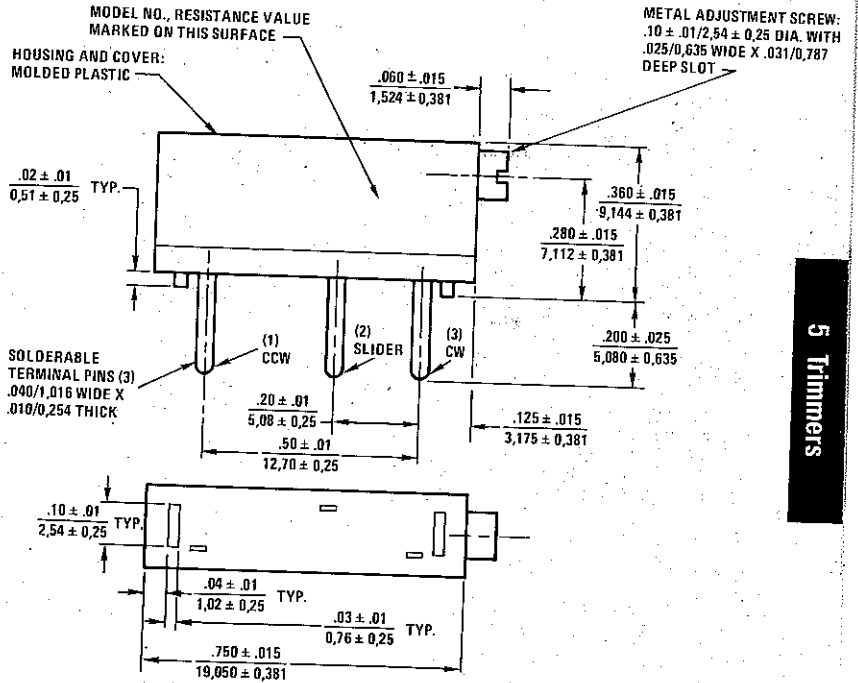
### CIRCUIT DIAGRAM



### MODEL 77P



### MODEL 79P



5 Trimmers