

# Model 580

**NEW**

## Commercial Potentiometers



### FEATURES:

- *Conductive Plastic Element*
- *Smooth Feel*
- *High Rotational Life*
- *Quiet Electrical Output*
- *Robust Construction*

### Electrical

#### RESISTANCE RANGE:

200Ω to 2.5 megΩ - Linear  
1.0KΩ to 1.0 megΩ - Non-linear

#### RESISTANCE TOLERANCE:

±20% standard

#### LINEARITY: ±5% Independent

(through 100K Ω)

#### POWER RATING:

Bushing Mount  
0.10 Watt @ 40°C- Linear Taper  
0.05 Watt @ 40°C- Non-Linear  
PC Mount  
0.05 Watt @ 40°C  
Derate to 0 Watt @ 100°C

#### MINIMUM RESISTANCE:

10Ω Max. Each End- Linear  
10Ω Max. Low End,  
1% High End- Non-Linear

#### MAXIMUM CONTINUOUS WORKING VOLTAGE:

100 VAC

#### DIELECTRIC WITHSTANDING VOLTAGE:

Sea Level- 300 VAC

#### DYNAMIC NOISE (CRV):

2% of Rt Standard Linear

### Mechanical

#### MATERIALS OF CONSTRUCTION:

Housing- Molded Thermoplastic  
Shaft- Metal  
Wiper- Metal Contact Spring  
Bushing- Metal

#### CONSTRUCTION:

Mounting- Bushing  
PC  
Locating Pin- @ 6 o'clock  
No pin, optional  
Not sealed for washing

#### TERMINALS:

Number- 3 in Line  
Type- PC Pins on 0.100" Grid Standard  
Strength- 2 lb Push & Pull

#### MECHANICAL ROTATION:

295° ± 5°

#### TORQUE:

Operating- 0.2 to 2.5 oz. in. @ 25°C,  
0.5 oz. in. Variation in a Control  
Stop- 3 in. lbs.

### Marking

Ink Stamp on Periphery or Rear  
per EIA Standard

### Environmental

#### STORAGE TEMPERATURE:

-40°C to +100°C

#### TEMPERATURE CYCLING:

-40°C to +100°C  
(5 cycles, 4 % Δ Rt)

#### LOAD LIFE:

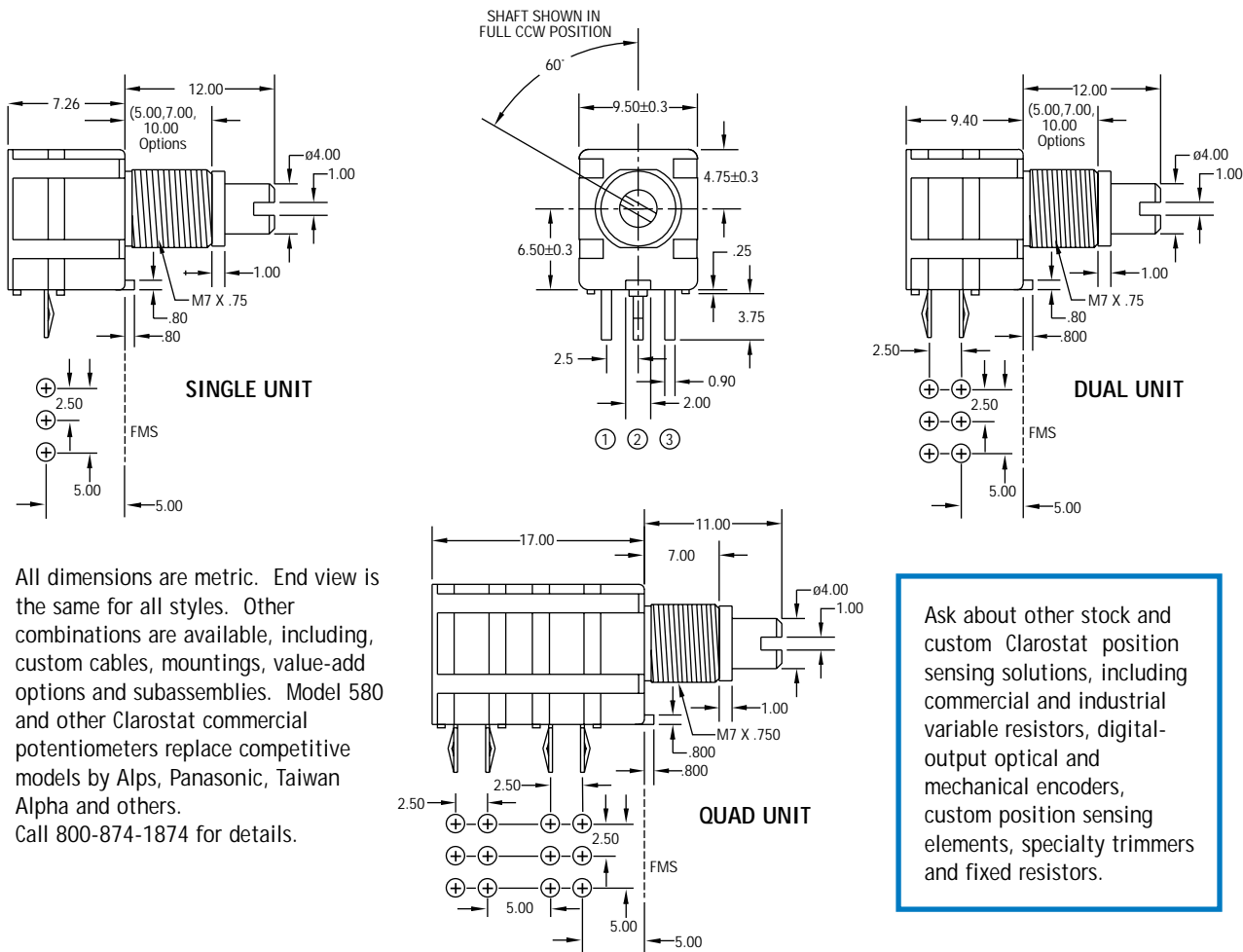
1000 hrs. Rated Load @ 40°C  
(10% Δ Rt)

#### ROTATIONAL LOAD LIFE:

40,000 cycles (10% Δ Rt)

ISO 9001  
CERTIFIED

## DIMENSIONS



All dimensions are metric. End view is the same for all styles. Other combinations are available, including, custom cables, mountings, value-add options and subassemblies. Model 580 and other Clarostat commercial potentiometers replace competitive models by Alps, Panasonic, Taiwan Alpha and others. Call 800-874-1874 for details.

Ask about other stock and custom Clarostat position sensing solutions, including commercial and industrial variable resistors, digital-output optical and mechanical encoders, custom position sensing elements, specialty trimmers and fixed resistors.

### CONSTRUCTION FEATURES:

- **Single Shafts:**
    - Single unit, Dual unit (one or two elements), Quad unit or Octo unit
  - **Concentric Shafts:**
    - Dual unit
    - Quad unit
    - Outer drives sections 3 & 4
    - Inner drives sections 1 & 2
  - **Shaft Lengths up to 35mm**
    - Shaft Ends - Plain Rounded
      - Flatted
      - Slotted
      - Knurled, 18 Teeth
  - **Shaft Diameters - 3mm to 6mm**
  - **Bushing - M7 X .75; 5, 7 & 10mm long**
  - **Detents - Center**
    - Other Detents, consult factory
  - **Mounting Height, PC Board to Shaft Center**
    - 6.5mm Standard
    - 12.5mm optional
  - **Mounting Support Brackets-**
    - "B" Style on rear
  - **Rotary Switch - 10 mA, 12 VDC, SPST**
- Additional Styles (consult factory)*
- Center tap
  - Digital output
  - Push-latch
  - Momentary switch
  - Vertical mounting "C" style

## ORDERING INFORMATION

To order or for custom applications, call 800-874-1874