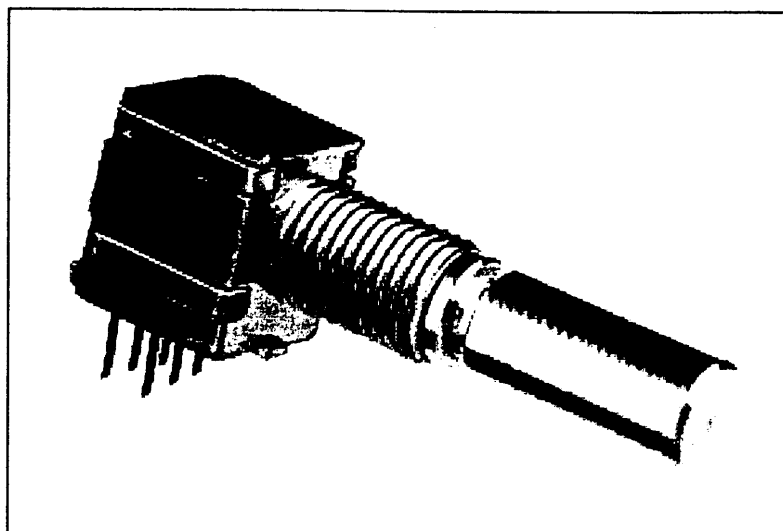


Model

180

Conductive Plastic
Potentiometer



FEATURES:

- Conductive plastic element
- Smooth feel
- High rotational life
- Quiet electrical output
- Robust construction

ELECTRICAL

Resistance Range:

200 Ω to 2.5 meg Ω - Linear
1.0K Ω to 1.0 meg Ω - Non-Linear

Resistance Tolerance:

$\pm 20\%$ standard

Linearity:

$\pm 5\%$ through Independent
(through 100K Ω)

Power Rating:

Bushing Mount

0.10 Watt @ 40°C - Linear Taper
0.05 Watt @ 40°C - Non-Linear Taper

PC Mount

0.5 Watt @ 40°C
Derate to 0 Watt @ 100°C

Minimum Resistance:

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

Max. Cont. Working Voltage:

100 VAC

Dielectric Withstanding Voltage:

Sea level - 300VAC

Dynamic Noise (CRV):

2% of Rt Standard Linear

MECHANICAL

Materials of Construction:

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

Construction:

Mounting - Bushing or 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 - 2lb Push & Pull

Mechanical Rotation:

295° $\pm$ 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

Unit identification:

Ink stamp on periphery or rear per
EIA Standard

ENVIRONMENTAL

Storage Temperature:

-40°C to +100°C

Temperature Cycling:

-40°C to $\pm 100^\circ\text{C}$
(5 cycles, 4% ΔR_t)

Load Life:

1000 hours Rated Load @ 40°C
(10% ΔR_t)

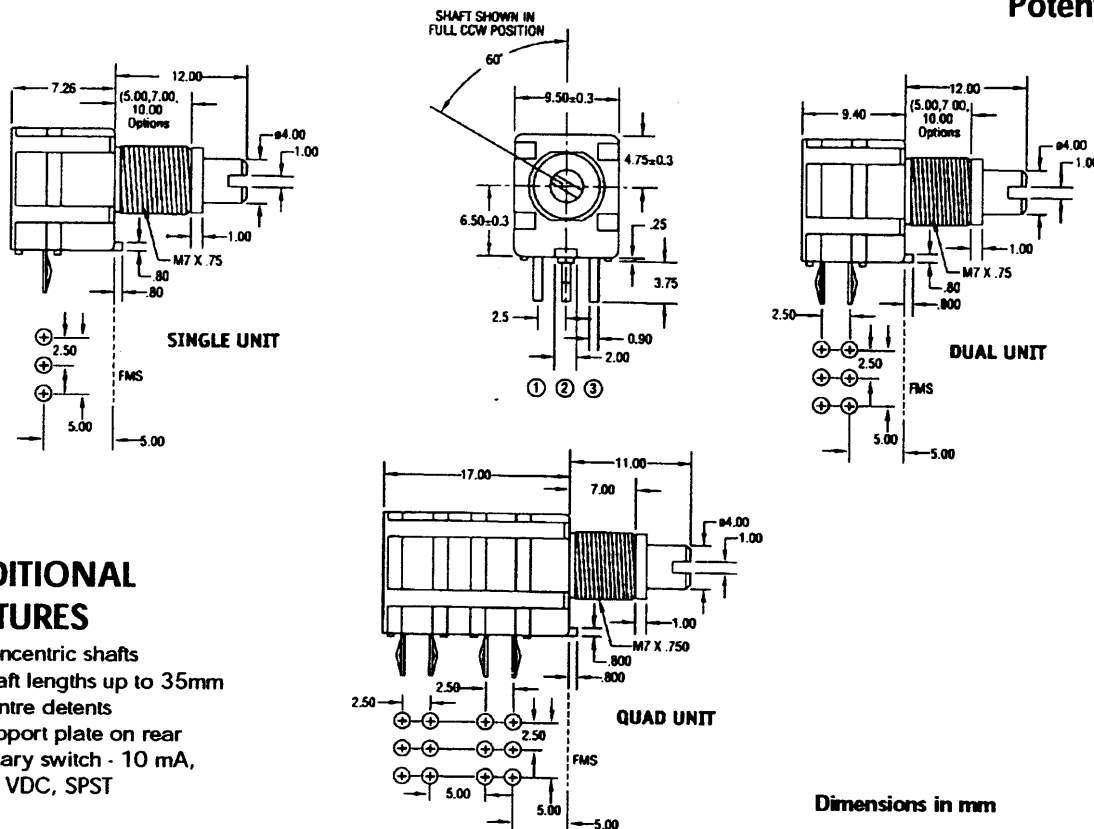
Rotational Load Life:

40,000 cycles (10% ΔR_t)

180

Conductive Plastic Potentiometer

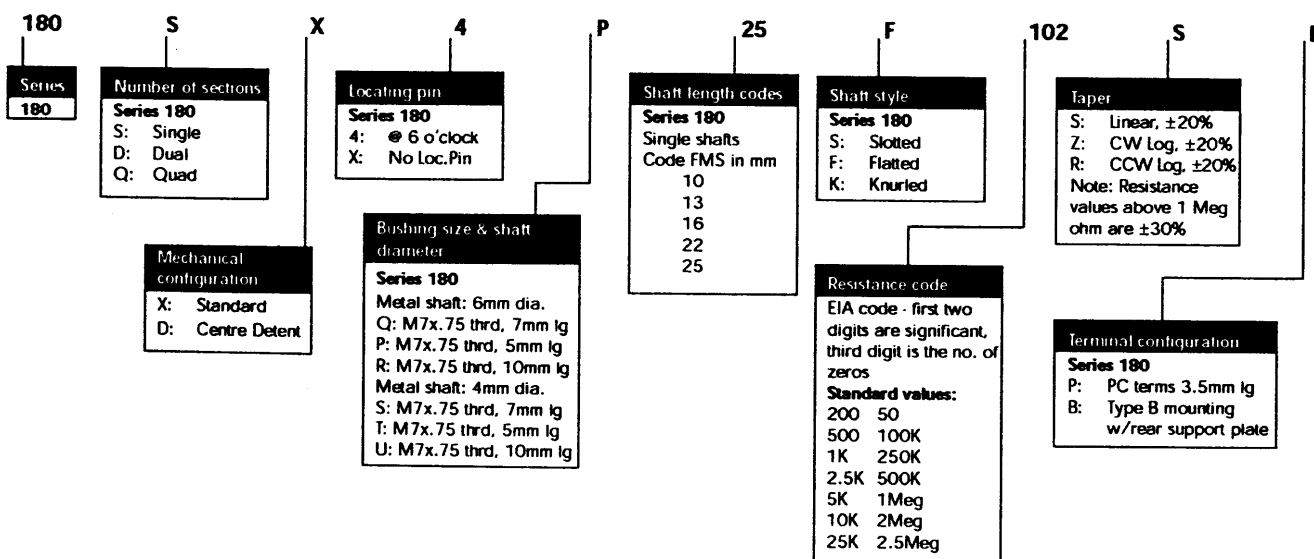
DIMENSIONS



ADDITIONAL FEATURES

- Concentric shafts
- Shaft lengths up to 35mm
- Centre detents
- Support plate on rear
- Rotary switch - 10 mA, 12 VDC, SPST

ORDERING INFORMATION



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