

# PEC POTENTIOMETERS LTD.

POTENTIOMETERS, TRIMMERS AND PRESETS  
DATA SHEET

## 16P SERIES

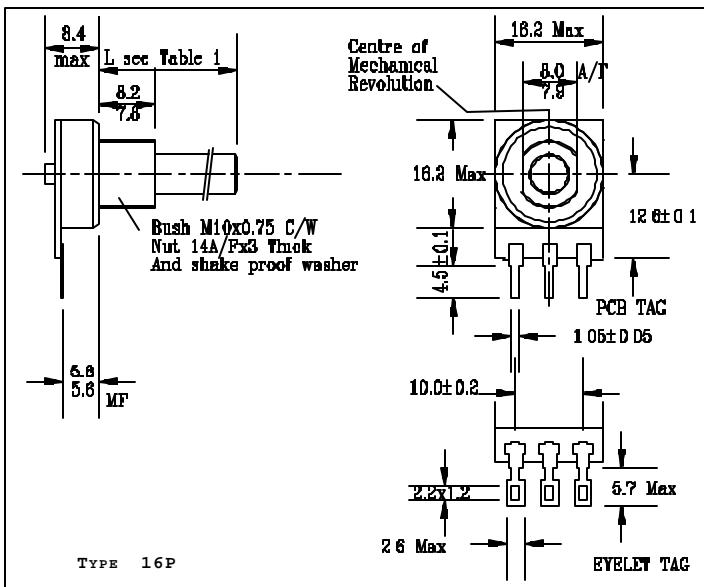


COMMITTED TO QUALITY

- 16.2MM SQUARE. ELASTIC CASE. PHENOLIC SUBSTRATE.
- POLYMER THICK FILM [CARBON BASED] TRACK.
- EYELET AND PCB TAGS. LINEAR / NON-LINEAR LAWS.
- ELASTIC SPINDLE. VARIETY OF SPINDLE OPTIONS.
- 16P PANEL MOUNT.
- 16PV PCB MOUNT - VERTICAL.
- 16PH PCB MOUNT - HORIZONTAL.
- 16PS WITH DPST SWITCH - PANEL MOUNT

- \*FLAME RETARDANT
- \*OPTIMUM SIZE
- \*HIGH RELIABILITY
- \*ASSURED QUALITY

This Type has been developed to satisfy a wide range of applications where high insulation resistance and voltage proof are specific requirements. With an all-plastic body and spindle construction, it is ideally suited to the requirements of domestic appliances [TV and Audio equipment] and Control Systems equipment where safety is of prime importance. Alternate spindle options and termination styles are available.



### SWITCH OPTION [TYPE 16PS]

THIS TYPE HAS BEEN DEVELOPED TO COMPLEMENT THE TYPE 16P, FOR APPLICATIONS REQUIRING A COMBINED POTENTIOMETER AND ROTARY ON/OFF SWITCH. THE SWITCH PROVIDED IS A DPST SWITCH WITH A 2A/64A RATING.

SWITCH TYPE	ROTARY, 2 POLE, ON-OFF
RATING	2A 12V DC OR 250V 50 Hz [CONTINUOUS]
SURGE RATING	64A
MECHANICAL ENDURANCE	10,000 OPERATIONS AT FULL RATING
CONTACT RESISTANCE	20 MILLI OHMS [MAX.]
INSULATION RESISTANCE	5 GIGA OHMS [MAX.]
OPERATING ANGLE	30°
OPERATING TORQUE	50 mNm, [MAX.]

### SPECIFICATIONS

RESISTANCE LAWS AND VALUE RANGE	: 470R TO 2M2 [LINEAR] : 4K7 TO 1M0 [NON - LINEAR]
RESISTANCE VALUES	: 1, 2.2, 4.7 AND 6.8 IN EACH DECADE. INTERMEDIATE VALUES CAN BE SUPPLIED ON REQUEST.
SELECTION TOLERANCE	: ±20%
RATED DISSIPATION @ 40°C	: 0.250W [LINEAR] : 0.125W [NON - LINEAR]
RATED DISSIPATION @ 70°C	: 0.125W [LINEAR] : 0.06W [NON-LINEAR]
LIMITING ELEMENT VOLTAGE	: 315V DC OR AC[RMS]
ISOLATION VOLTAGE	: 450V DC OR AC[PEAK]
ELECTRICAL ROTATION	: 240°
RESIDUAL RESISTANCE	: 5 OHMS [MAX.]
NOISE (CRV)	: 2% MAX. - [LINEAR] : 3% MAX. - [NON-LINEAR]
INSULATION RESISTANCE	: 1000 MEGA OHMS [MIN.]
VOLTAGE PROOF	: 630V AC[PEAK]
STARTING TORQUE	: 35mNm [MAX.]
MECHANICAL ROTATION	: 270° [NOMINAL]
END-STOP TORQUE	: 350 mNm
LIMITS OF RESISTANCE CHANGE:	DR < 15% [AFTER 1000 HRS ENDURANCE]
TEMP. CHARACTERISTIC OF RESISTANCE	: ±5% [20°C TO 70°C]
BUMP SEVERITY	: 390 m/s <sup>2</sup> , 4000 BUMPS
VIBRATION	: 10 - 500 Hz, 0.75mm OR 98 m/s <sup>2</sup>
CLIMATIC CATEGORY	: 10/070/21
MECHANICAL ENDURANCE	: 20,000 OPERATIONS [MIN.]

