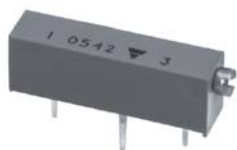


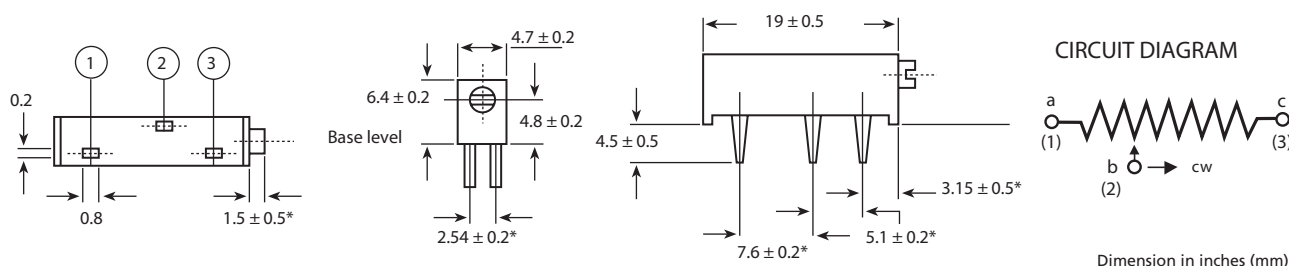
Potentiometer

Rectangular Multi-Turn Cermet Trimmer

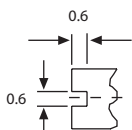
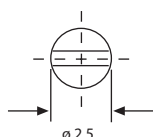
GP84 Series



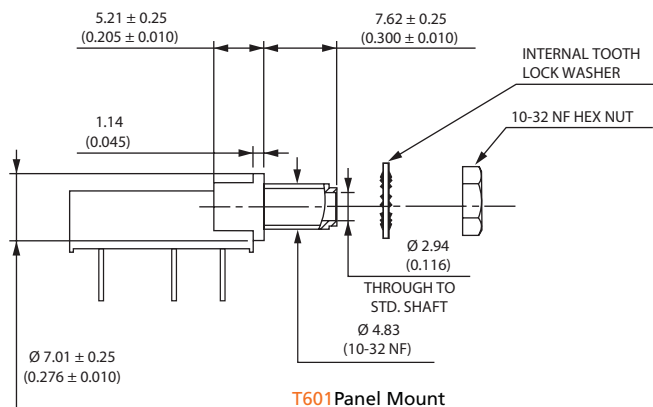
The Model GP84 is manufactured to the highest international standards. This product, sealed to 85 °C for 1 minute (IEC. 68-2-17) has an effective travel of 18 turns nominal and a resistance range of 10Ω to 2 MΩ.



SHAFT



SPECIAL



Tolerance unless otherwise specified ± 0.5

How to order

GP84 1 2 3 4

1 OHMIC VALUE:

STANDARD RESISTANCE ELEMENT DATA				
STANDARD RESISTANCE VALUES	LINEAR LAW			TYPICAL TCR - 55 °C + 125 °C
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	
Ohm	W	V	mA	ppm/°C
10	0.5	2.24	224	± 100
22	0.5	3.32	151	
47	0.5	4.85	103	
100	0.5	7.07	71	
220	0.5	10.5	48	
470	0.5	15.3	33	
1K	0.5	22.4	22	
2K2	0.5	33.2	15	
4K7	0.5	48.5	10	
10K	0.5	70.7	7.1	
22K	0.5	105	4.8	
47K	0.5	153	3.3	
100K	0.5	224	2.2	
220K	0.28	250	1.1	
470K	0.13	250	0.5	
1M	0.06	250	0.3	

2 TOLERANCE:

10 Tolerance=10%

3 SPECIAL NUMBER:

T601 See above drawings (omit if standard)

4 PACKING:

BK2 Box 200 pieces
TB2 Tube 25 pieces

FEATURES

- > Panel mount
- > Chevron shaft for sealing and smooth consistent torque
- > Solder terminations for improved reliability
- > Multi-finger wiper for better C.R.V.



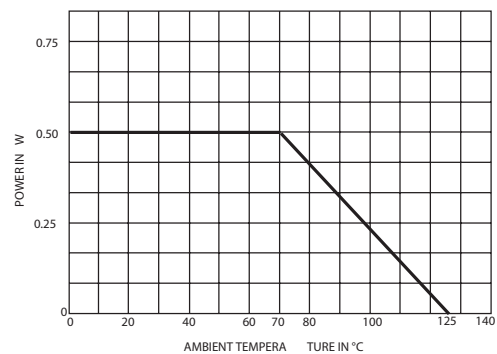
SPECIFICATIONS

ELECTRICAL SPECIFICATIONS		
Resistive Element		cermet
Electrical Travel		15 turns $\pm$ 1
Resistance Range		10 Ω to 2.2 M Ω
Standard series E3		1 - 2.2 - 4.7 and 1 - 2 - 5
Tolerance	Standard	$\pm$ 10 %
	On Request	$\pm$ 5 %
Power Rating	Linear	0.50 W at + 70 °C
	Logarithmic	not applicable
Temperature Coefficient		See Standard Resistance Element Table
Limiting Element Voltage (Linear Law)		250 V
Contact Resistance Variation		2 % R _n or 1 Ω
End Resistance (Typical)		1 Ω
Dielectric Strength (RMS)		1000 V
Insulation Resistance (500 VDC)		10 ⁶ M Ω

MECHANICAL SPECIFICATIONS

Mechanical Travel	18 turns $\pm$ 5
Operating Torque (max. Ncm)	2
End Stop Torque	clutch action
Unit Weight (max. g)	1
Wiper (actual travel)	positioned at approx. 50 %
Environmental specifications	
Temperature Range	- 55 °C to + 125 °C
Climatic Category	55/125/56
Sealing	fully sealed container IP67

POWER RATING CHART



PERFORMANCE			
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\frac{\Delta R_T}{R_T}$ (%)	$\frac{\Delta R_{1-2}}{R_{1-2}}$
Load Life	1000 hours at rated power 90'/30' - ambient temp. 70 °C	$\pm$ 1 % Contact res. variation: < 3 % R _n	$\pm$ (3 % $\pm$ 5 Ω)
Climatic Sequence	Phase A dry heat 125 °C Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	$\pm$ 0.5 %	$\pm$ 1 %
Long Term Damp Heat	56 days	$\pm$ 0.5 % Dielectric strength: 1000 V _{RMS} Insulation resistance: > 10 ⁴ M Ω	$\pm$ 1 %
Rapid Temperature Change	5 cycles - 55 °C at + 125 °C	$\pm$ 0.5 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm 1 \%$
Shock	50 g at 11 m seconds 3 successive shocks in 3 directions	$\pm$ 0.2 %	$\pm 0.3 \%$
Vibration	10 - 55 Hz 0.75 mm or 10 g during 6 hours	$\pm$ 0.2 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm 0.3 \%$
Rotational Life	200 cycles	$\pm$ (2 % + 3 Ω) Contact res. variation: < 2 % R _n	