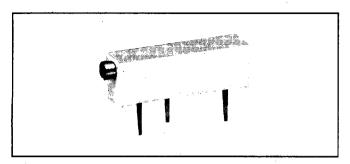
MODEL T18 Cermet Trimmers



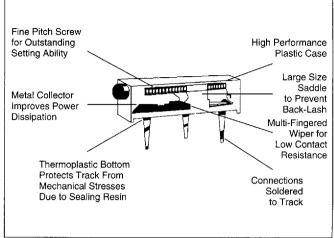




FEATURES

- 0.75 watt at + 70°C
- 3/4" [19.05mm] rectangular
- · Fully sealed container
- Logarithmic taper available
- · Low contact resistance variation

STANDARD	RESISTAN	CE ELEME	INT DATA	
	LINEAR LAW			
STANDARD RESISTANCE VALUES (Ohms)	MAXIMUM POWER @ + 70°C (Watts)	MAXIMUM WORKING VOLTAGE (Volts)	MAX. CURRENT THROUGH ELEMENT (mA)	TC - 55°C + 125°C PPM/°C
10	0.75	2.7	270.0	
20	0.75	4.06	184.0	0 + 200
50	0.75	5.93	126.0	
100	0.75	8.7	87.0	
200	0.75	12.8	58.0	
500	0.75	18.7	40.0	
1k	0.75	27.4	27.0	
2k	0.75	40.6	18.0	
5k	0.75	59.3	11.0	
10k	0.75	86.6	9.0	± 100
20k	0.75	128.4	5.8	± 100
50k	0.75	187.0	4.0	
100k	0.625	250.0	2.5	
200k	0.28	250.0	1.09	
500k	0.13	250.0	0.44	
1M	0.06	250.0	0.25	
2M	0.028	250.0	0.11	



ELECTRICAL SPECIFICATIONS

Electrical Travel: 15 turns ± 1.

Resistance Range: 10 ohm to 2.2 Megohm.

Standard Series: 1 - 2 - 5 and E3 (1 - 2.2 - 4.7).

Resistance Tolerance: \pm 10% standard. \pm 5% available. **Temperature Coefficient:** \pm 70PPM/°C (- 55°C to + 125°C)

for $Rn \ge 100$ ohm typical.

Power Rating (Linear law): 0.75 watt at + 70°C. Limiting Element Voltage (Linear law): 250 volts. Contact Resistance Variation: 2% or 2 ohm. End Resistance Variation: 1 ohm typical.

Dielectric Strength: 1000 V RMS.

Insulation Resistance: 106 Megohm (500 VDC).

MECHANICAL SPECIFICATIONS

Mechanical Travel: 18 turns ± 5.

Operating Torque: 2.8 oz. in. maximum.

End Stop Torque: Clutch action. **Unit Weight:** 0.04 ounce maximum.

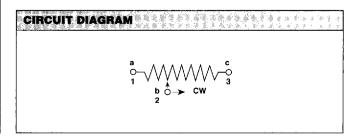
Resistive Element: Cermet.

ENVIRONMENTAL SPECIFICATIONS

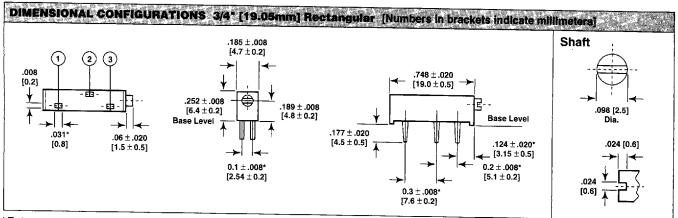
Temperature Limits: - 55°C to + 125°C.

Climatic Category: 55/100/56.

Sealing: Fully sealed container IP67. Water washable.

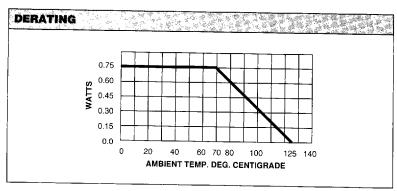


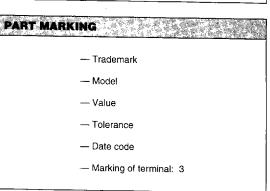
MODEL T18

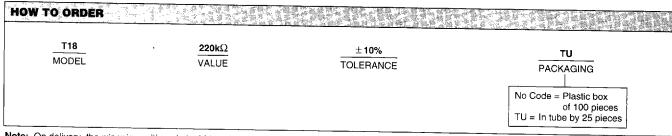


^{*} To be measured at base level.

ENVIRONMENTAL PERFORMANCE					
TEST		TYPICAL VALUES AND DRIFTS			
	CONDITIONS	$rac{\Delta}{Rac}$ %	A Rab %		
Climatic Sequence	Phase A dry heat + 125°C Phase B damp heat Phase C cold - 55°C Phase D damp heat 5 cycles	0.5%	1%		
Long Term Damp Heat	56 days	0.5% Dielectric strength: 1000 V RMS Insulation resistance: > 10^4 M Ω	1%		
Rapid Temperature Change	5 cycles - 55°C at + 125°C	0.5%	Δ Vab 1%		
Shock	50 g 11ms 3 successive shocks in 3 directions	0.2%	0.3%		
Vibration	10 - 55 Hz 0.75mm or 10 g during 6 hours	0.2%	Δ Vab 0.3%		
Rotational Life	200 cycles	1% Contact resistance variation: < 2% Rn			
Load Life	1000 hours at rated power 90'/30' - ambient temperature + 70°C	1% Contact resistance variation: < 1% Rn	2%		







Note: On delivery, the wiper is positioned at mid-travel.

Mouser Electronics

Authorized Distributor

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Vishay: T18 20K 10%