

VISHAY

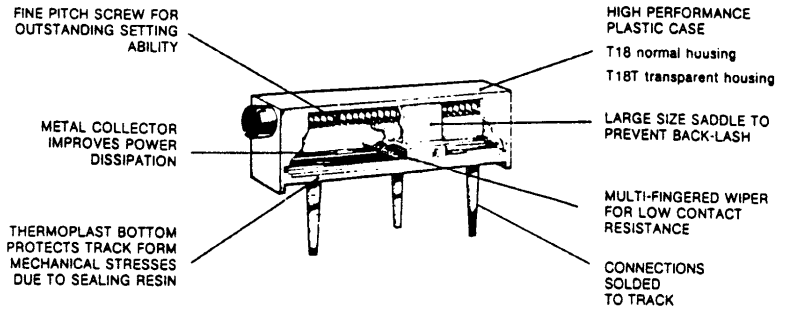
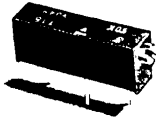
T18-T

3/4" rectangular
multiturn
cermet trimmer
- industrial grade

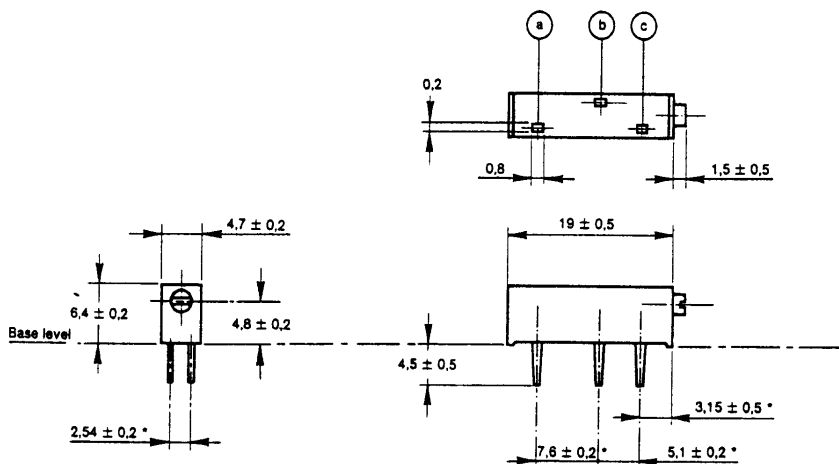
0,75 W at 70°C
NF C 83-251
MIL-R-22097
CECC 41 100
LNZ

STERNICE

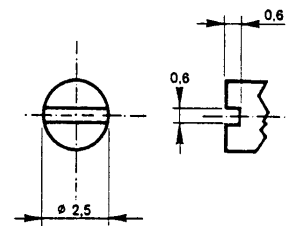
Potentiometers
and trimmers



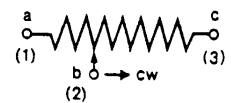
T18



SHAFT



CIRCUIT DIAGRAM



Dimensions in mm.

SPECIFICATIONS

MECHANICAL

MECHANICAL TRAVEL... 18 turns ±5
OPERATING TORQUE (max. Ncm)... 2
END STOP TORQUE... clutch action
UNIT WEIGHT (max. g)... 1

ENVIRONMENTAL

TEMPERATURE RANGE... T18 : -55°C +125°C
T18T : -55°C +105°C
CLIMATIC CATEGORY... 55 / 100 / 56
SEALING... T18 : fully sealed container IP67
T18T : enable cleaning IP64

ELECTRICAL

RESISTIVE ELEMENT... cermet
ELECTRICAL TRAVEL... 15 turns ±1
RESISTANCE RANGE... 10 Ω... 2,2 MΩ
Standard series E3 (1 - 2,2 - 4,7)... and 1 - 2 - 5
TOLERANCE standard... ±10%
on request... ±5%
POWER RATING linear... 0,75 W at +70°C
logarithmic... not applicable
TEMPERATURE COEFFICIENT... see table 2
LIMITING ELEMENT VOLTAGE (linear law)... 250 V
CONTACT RESISTANCE VARIATION ... 2% Rn or 2 Ω
END RESISTANCE (typical)... 1 Ω
DIELECTRIC STRENGTH (RMS)... 1000 V
INSULATION RESISTANCE (500 V DC)... 10⁶ MΩ

PERFORMANCES

Table 1

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 temperature 70°C	± 1% Contact resistance variation : < ±1% Rn	± 2%
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 MΩ	± 1 %
RAPID TEMPERATURE CHANGE	5 cycles -55°C at +125°C	± 0,5 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm 1\%$
SHOCKS	50 g 11 ms 3 successive shocks in 3 directions	± 0,2 %	± 0,3%
VIBRATIONS	10 - 55 Hz 0,75 mm or 10 g during 6 hours	± 0,2 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm 0,3\%$
ROTATIONAL LIFE	200 cycles	± 1 % Contact resistance variation : < ±2% Rn	

2
Potentiometers
and trimmers

STANDARD RESISTANCE ELEMENT DATA

Table 2

Standard resistance values	LINEAR LAW			T.C. - 55°C + 125°C
	Max. power at +70°C	Max. working voltage	Max. cur. through element	
Ω	W	V	mA	ppm/°C
10 22 47	0,75	2,7 4,06 5,93	270 184 126	0 +200
100 220 470		8,7 12,8 18,7	87 58 40	±100
1 k 2,2 k 4,7 k	27,4 40,6 59,3	27 18 11		
10 k 22 k 47 k	86,6 128,4 187	9 5,8 4		
100 k 220 k 470 k	0,75 0,625 0,28	250 250 250	2,5 1,09 0,44	
1 M 2,2 M	0,13 0,06	250 250	0,25	

MARKING

- Printed :
- SFERNICE trademark
 - series
 - style
 - ohmic value (in Ω, kΩ, MΩ)
 - manufacturing date
 - marking of terminal 3.

SOLVENTS

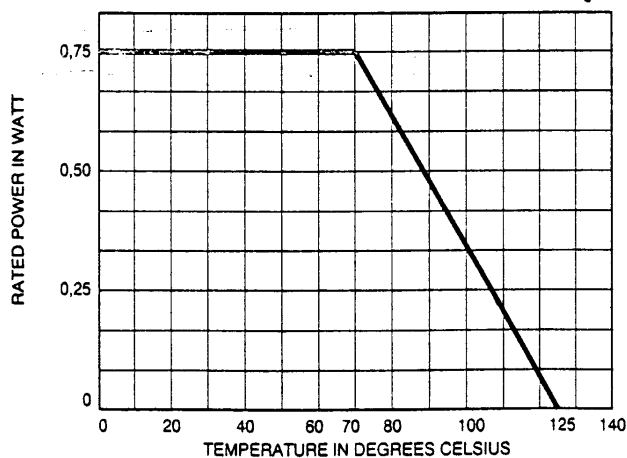
T18T. The material used for body is not compatible with all solvents. A prior test is recommended.

PACKAGING

- In plastic box of 100 pieces, no code
- In tube by 25 pieces code "TU".

POWER RATING CHART

Fig. 2



ORDERING PROCEDURE

	SERIES	OHMIC VALUE	TOLERANCE	PACKAGING
OPAQUE	T18	10 kΩ	± 10 %	TU
TRANSPARENT	T18T	N.B.: On delivery the wiper is positioned at mid-travel.		TU : Tube