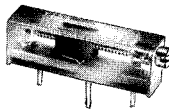
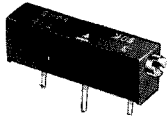




T18-T

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



FINE PITCH SCREW FOR
OUTSTANDING SETTING
ABILITY

METAL COLLECTOR
IMPROVES POWER
DISSIPATION

THERMOPLAST BOTTOM
PROTECTS TRACK FORM
MECHANICAL STRESSES
DUE TO SEALING RESIN

HIGH PERFORMANCE
PLASTIC CASE

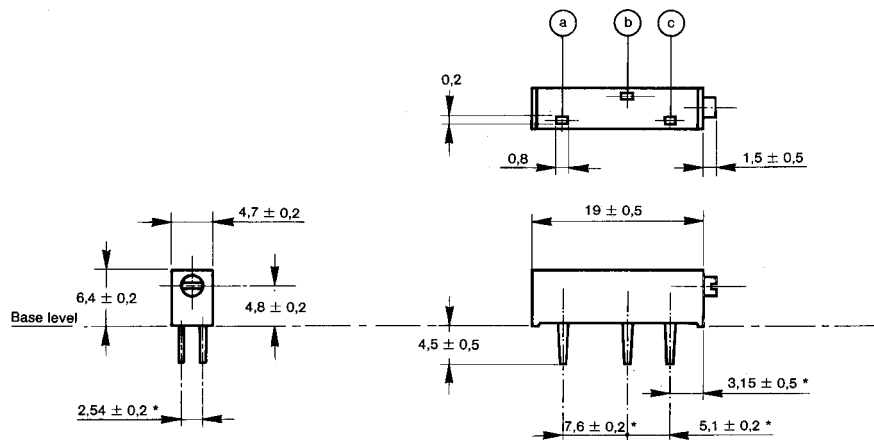
T18 normal housing
T18T transparent housing

LARGE SIZE SADDLE TO
PREVENT BACK-LASH

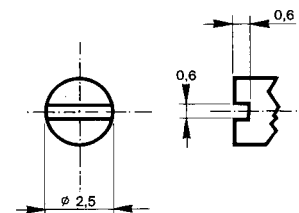
MULTI-FINGERED WIPER
FOR LOW CONTACT
RESISTANCE

CONNECTIONS
SOLDED
TO TRACK

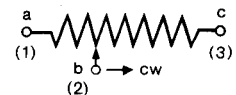
T18



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 : $-55^{\circ}\text{C} + 125^{\circ}\text{C}$ T18T : $-55^{\circ}\text{C} + 105^{\circ}\text{C}$
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 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...	0,75 W at $+70^{\circ}\text{C}$
logarithmic...	not applicable
TYPICAL TEMP.	
COEFFICIENT (for $R_n \geq 100 \Omega$)...	± 70 ppm/ $^{\circ}\text{C}$
LIMITING ELEMENT VOLTAGE (linear law)...	250 V
CONTACT RESISTANCE VARIATION ...	2% R_n or 2 Ω
END RESISTANCE (typical)...	1 Ω
DIELECTRIC STRENGTH (RMS)...	1000 V
INSULATION RESISTANCE (500 V DC)...	10 ⁶ M Ω

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	

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 1 k 2,2 k 4,7 k 10 k 22 k 47 k 100 k 220 k 470 k 1 M 2,2 M	0,75 0,625 0,28 0,13 0,06	8,7 12,8 18,7 27,4 40,6 59,3 86,6 128,4 187 250 250 250 250 250	87 58 40 27 18 11 9 5,8 4 2,5 1,09 0,44 0,25	±100

MARKING

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

SOLVENTS

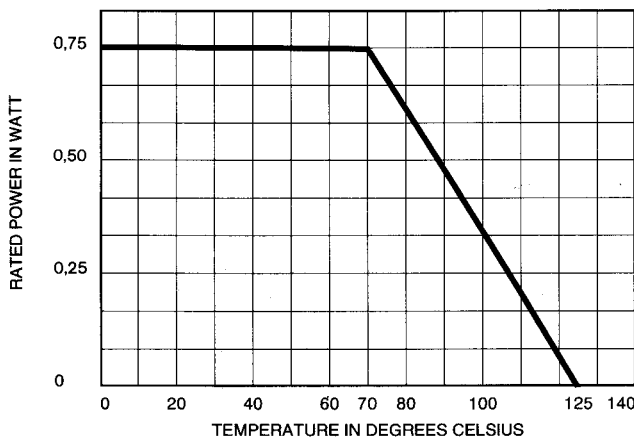
T18T. The material used for the body is not compatible with all solvents. A prior test is recommended.

PACKAGING

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

POWER RATING CHART

Fig. 1



ORDERING PROCEDURE

	SERIES	OHMIC VALUE	TOLERANCE	PACKAGING
OPAQUE	T18	10 kΩ	±10%	TU
TRANSPARENT	T18T			TU Tube

N.B.: On delivery the wiper is positioned at mid-travel.