


T7—YA
—YB

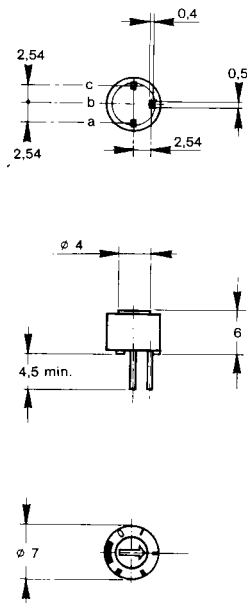
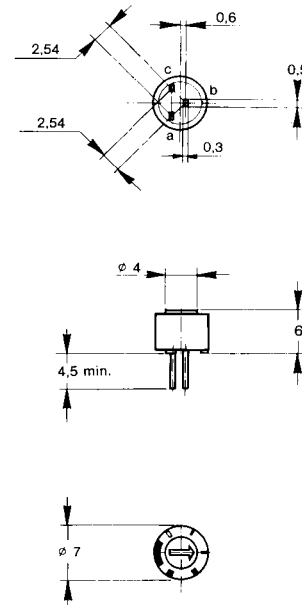
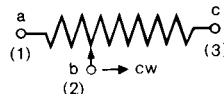
miniature cermet trimmer

– industrial grade

 0,5 W at 85°C
 NF C 83-251
 LNZ


The T7 trimmer is only 7 mm (0,275") in diameter and fits almost anywhere. A sealed plastic case protecting a quality cermet track guarantees high performance and proven reliability. Adjustments are made easier by the clear scale readings. Competitively priced, the T7 is ideally suited to all industrial applications.

- HIGH STABILITY
- LOW TEMPERATURE COEFFICIENT
- WIDE RESISTANCE RANGE
- EASY TO READ SCALE

T7YA

T7YB

CIRCUIT DIAGRAM


Dimension in mm

 Tolerance unless otherwise specified: $\pm 0,5$
SPECIFICATIONS
MECHANICAL

MECHANICAL TRAVEL...	300° $\pm 5^\circ$
OPERATING TORQUE (max. Ncm)...	2
END STOP TORQUE (max. Ncm)...	4
UNIT WEIGHT (max. g.)...	0,5

ENVIRONMENTAL

TEMPERATURE RANGE...	-55°C + 125°C
CLIMATIC CATEGORY...	55 / 100 / 56
SEALING...	enables cleaning except with water IP64

ELECTRICAL

RESISTIVE ELEMENT...	cermet
ELECTRICAL TRAVEL...	270° $\pm 15^\circ$
RESISTANCE RANGE...	10 Ω ... 1 M Ω
Standard series E3 (1 - 2,2 - 4,7)	
on request series 1 - 2 - 5	
TOLERANCE standard...	$\pm 20\%$
on request...	$\pm 10\%$
POWER RATING linear...	0,5 W at 85°C
logarithmic...	not applicable
TYPICAL TEMP. COEFFICIENT (for $R_n \geq 100 \Omega$)...	70 ppm/°C
LIMITING ELEMENT VOLTAGE (linear law)...	250 V
CONTACT RESISTANCE VARIATION ...	3 % or 3 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	± 3% Contact resistance variation : < ±3% Rn	± 4 %
CLIMATIC SEQUENCE	Phase A dry heat 100°C Phase B damp heat Phase C cold -55°C Phase D damp heat 5 cycles	± 2 %	± 3 %
LONG TERM DAMP HEAT	56 days	± 2 % Dielectric strength : 1000 V RMS Insulation resistance : > 10 ⁴ MΩ	± 3 %
RAPID TEMPERATURE CHANGE	5 cycles -55°C at +125°C	± 1 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm 2\%$
SHOCKS	50 g 11 ms 3 successive shocks in 3 directions	± 0,5 %	± 1%
VIBRATIONS	10 - 55 Hz 0,75 mm or 10 g during 6 hours	± 0,5 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm 1\%$
ROTATIONAL LIFE	200 cycles	± 3 % Contact resistance variation : < ±3% Rn	

STANDARD RESISTANCE ELEMENT DATA

Table 2

Standard resistance values	LINEAR LAW			T.C. -55°C +125°C
	Max. power at 85°C	Max. working voltage	Max. cur. through element	
Ω	W	V	mA	ppm/°C
10	0,5	2,2	224	0
22		3,3	150	
47		4,8	103	
100	↓	7	70	±100
220		10,5	47	
470		15,3	32	
1 k		22,4	22	
2,2 k		33,2	15	
4,7 k		48,5	10	
10 k		70,7	7	
22 k		105	4,8	
47 k		153	3,2	
100 k		224	2,2	
220 k	0,28	250	1,1	
470 k	0,13	250	1,53	
1 M	0,06	250	0,25	

MARKING

Printed :

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

SEALING

T7 trimming potentiometers are sealed against dust and PC boards cleaning according to NF C 20 627 in the following solvents :

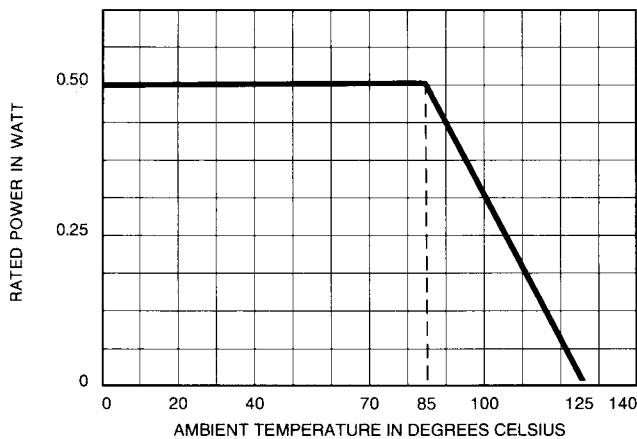
- trichlorotrifluoroethane
- alcohol
- trichlorethane
- but not with water.

PACKAGING

- In bulk (box of 200 pieces), no code
- In magazine pack by 50 pieces (tube) code "TU".

POWER RATING CHART

Fig. 2



ORDERING PROCEDURE

