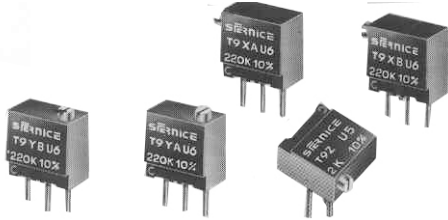


3/8" Square Multiturn Fully Sealed Container Cermet Trimmers

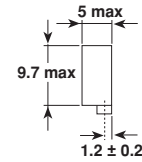
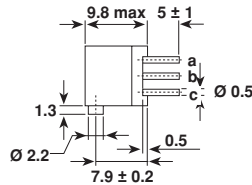
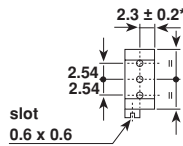


FEATURES

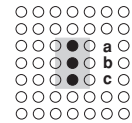
- Military and professional grade
- 0.5 Watt at 85°C
- CECC 41 101-004 (A, B, C, D, E)
- MIL-R-22097 (RJ24)
- GAM T1
- Fully sealed
- Operating temperature range – 55°C to + 155°C
- Excellent stability
- Low temperature coefficient
- Wide ohmic range

DIMENSIONS in millimeters

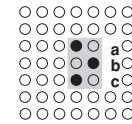
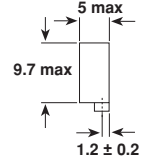
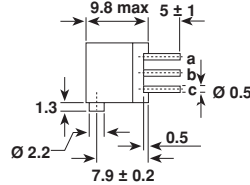
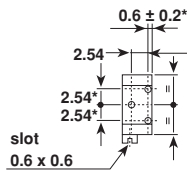
T9XA
(PM81A)



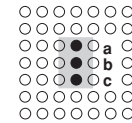
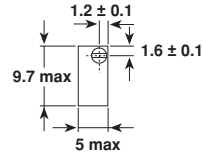
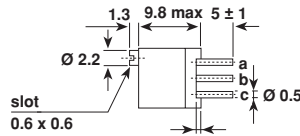
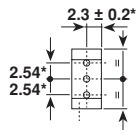
Terminal Spacing on a 2.54 PCB



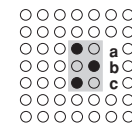
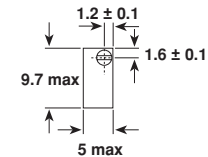
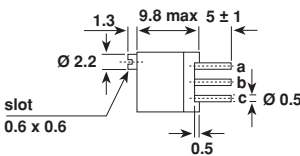
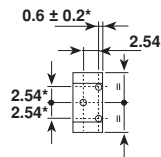
T9XB
(PM81B)C



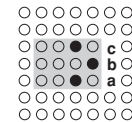
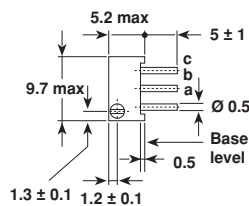
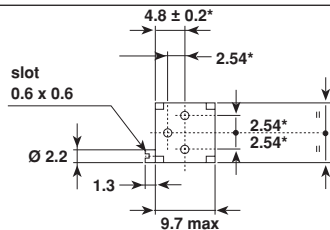
T9YA
(PM82A)B



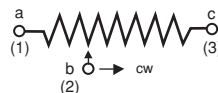
T9YB
(PM82B)D



T9Z
(PM83)E



CIRCUIT DIAGRAM



*to be measured at base level

Undergoes European Quality Insurance System (CECC)

ELECTRICAL SPECIFICATIONS

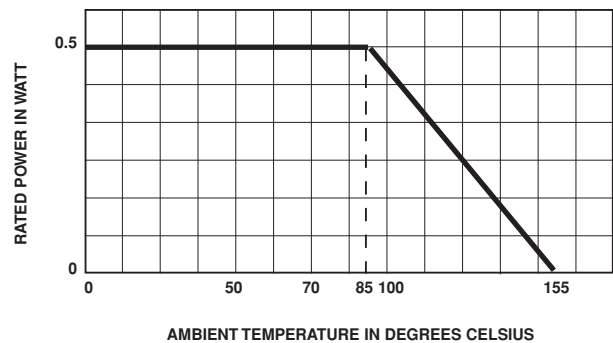
Resistive Element	cermet	
Electrical Travel	19 turns \pm 2	
Resistance Range	10 to 2.2 M Ω	
Standard Series E3	1 - 2.2 - 4.7 and on request 1 - 2 - 5	
Tolerance	Standard	\pm 10%
	On Request	\pm 5%
Power Rating	Linear	0.5 W at + 85°C
	Logarithmic	not applicable
Temperature Coefficient	See Standard Resistance Element Data	
Limiting Element Voltage (Linear Law)	250 V	
Contact Resistance Variation	2% Rn 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	22 turns \pm 5
Operating Torque (max. Ncm)	1.5
End Stop Torque	clutch action
Unit Weight (max. g)	1.2

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	- 55°C + 155°C
Climatic Category	55/125/56
Sealing	fully sealed container IP67

POWER RATING CHART**PERFORMANCE**

CECC 41100		TYPICAL VALUES AND DRIFTS			
TESTS	CONDITIONS	$\frac{\Delta RT}{RT}$ (%) REQUIREMENTS	$\frac{\Delta R_{1-2}}{R_{1-2}}$ (%)	$\frac{\Delta RT}{RT}$ (%)	$\frac{\Delta R_{1-2}}{R_{1-2}}$ (%)
Climatic Sequence	Phase A dry heat 125°C Phase B damp heat Phase C cold - 55°C Phase D damp heat 5 cycles	\pm 2%	\pm 3%	\pm 0.5%	\pm 1%
Long Term Damp Heat	56 days	\pm 2% Dielectric strength : 700 V Insulation resistance : > 100 M Ω	\pm 3%	\pm 0.5% Dielectric strength : 1000 V Insulation resistance : > 10 ⁴ M Ω	\pm 1%
Rotational Life	200 cycles	\pm 2% Contact res. variat. : < 3% Rn		\pm 2% Contact res. variat. : < 1% Rn	
Load Life	1000 h at rated power 90/30' - ambient temp. 70°C	\pm 2% Contact res. variat. : < 3% Rn	\pm 3%	\pm 1% Contact res. variat. : < 1% Rn	\pm 2%
Rapid Temperature Change	5 cycles - 55°C at + 125°C	\pm 1.5%	$\frac{\Delta V_{1-2}}{V_{1-3}} \pm 1\%$	\pm 0.5%	$\frac{\Delta V_{1-2}}{V_{1-3}} < \pm 1\%$
Shock	50 g 11 ms 3 successive shocks in 3 directions	\pm 1%	\pm 2%	\pm 0.1%	\pm 0.2%
Vibration	10-55 Hz 0.75 mm or 10 g during 6 hours	\pm 1%	$\frac{\Delta V_{1-2}}{V_{1-3}} \pm 2\%$	\pm 0.1	$\frac{\Delta V_{1-2}}{V_{1-3}} < \pm 0.2\%$



3/8" Square Multiturn Fully Sealed Container
Cermet Trimmers

Vishay Sfernice

STANDARD RESISTANCE ELEMENT DATA				
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 + 200
22		3.3	150	
47		4.8	103	
100	↓	7	70	± 100
220		10.5	47	
470		15.3	32	
1k		22.4	22	
2.2k		33.2	15	
4.7k		48.5	10	
10k		70.7	7	
22k		105	4.8	
47k		153	3.2	
100k		0.5	224	
220k	0.28	250	1.1	
470k	0.13	250	0.53	
1M	0.06	250	0.25	
2.2M	0.028	250	0.11	

MARKING

Printed: VISHAY logo, series, style, ohmic value (in Ω, kΩ, MΩ), tolerance (in %), manufacturing date, marking of terminal 3.

PACKAGING
- In magazine pack by 50 pieces (tube) code "TU50".

ORDERING INFORMATION				
T9	XA	470kΩ	± 10 %	TU50
SERIES	VERSION	OHMIC VALUE	TOLERANCE	PACKAGING TU50: Tube