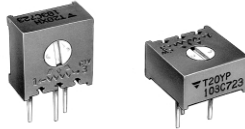


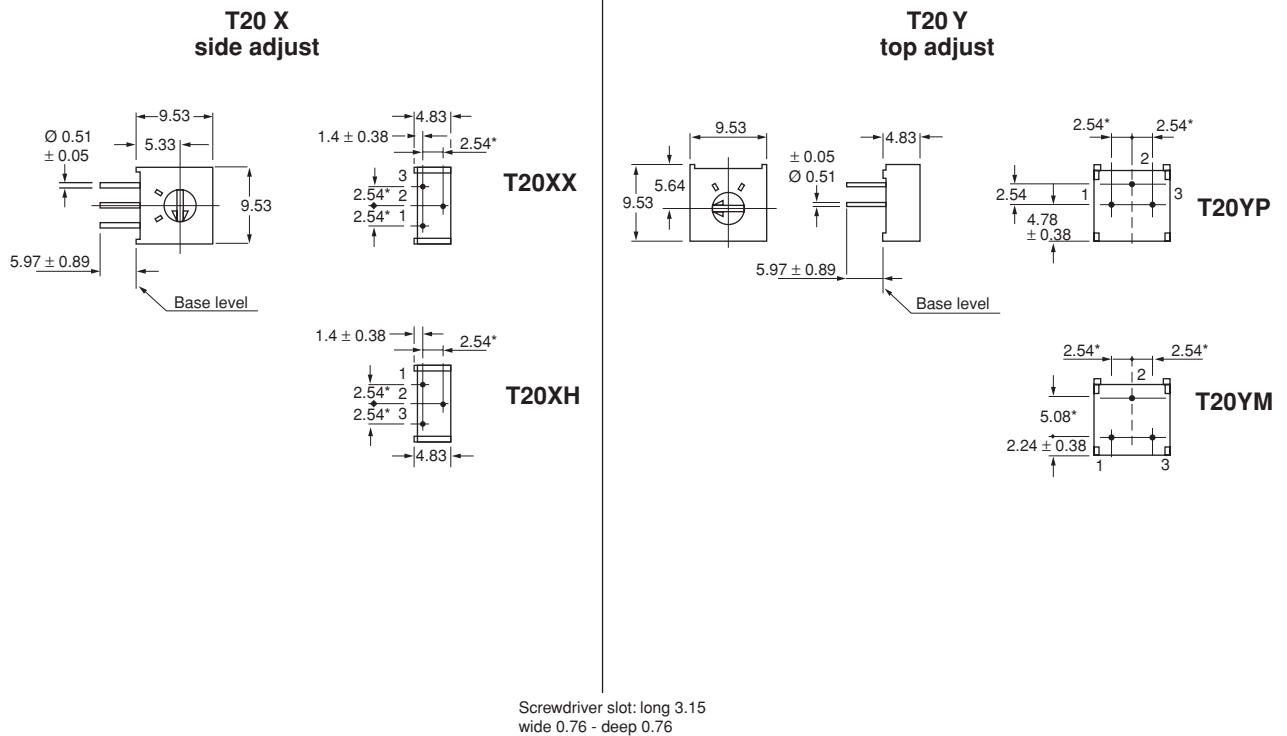
3/8" Square, Single Turn Sealed Cermet Trimmers



FEATURES

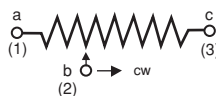
- Industrial grade
- 0.5 Watt at 85°C
- CECC 41100
- Full sealed
- 4 standard pin styles
- Easy to read scale

DIMENSIONS in millimeters



CIRCUIT DIAGRAM

- *To be measured at base level.
• Tolerances unless otherwise specified ± 0.5 mm.



ELECTRICAL SPECIFICATIONS

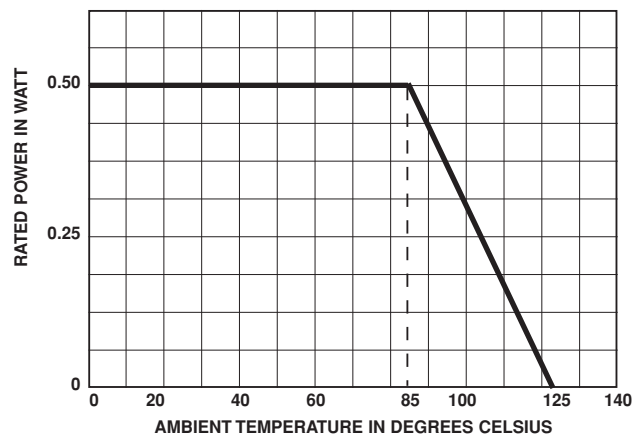
Resistive Element	cermet
Electrical Travel	280°
Resistance Range	10Ω to 2MΩ
Standard Series	1 - 2 - 5..
Tolerance Standard	± 10 %
Power Rating	Linear
	Logarithmic
Temperature Coefficient	See Standard Resistance Element Data
Limiting Element Voltage (linear law)	300V
Contact Resistance Variation	2% Rn or 3Ω
End Resistance (typical)	1Ω
Dielectric Strength (RMS)	900V
Insulation Resistance (500VDC)	10 ³ MΩ

MECHANICAL SPECIFICATIONS

Mechanical Travel	310°
Operating Torque (max. Ncm)	3.5
End Stop Torque (min. Ncm)	10.5
Unit Weight (max. g)	0.5

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	– 55°C + 125°C
Climatic Category	55/100/56
Sealing	fully sealed container IP67

POWER RATING CHART**PERFORMANCE**

TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\Delta \frac{R_{ac}}{R_{ac}}$ (%)	$\Delta \frac{R_{ab}}{R_{ab}}$ (%)
Load Life	1000h at rated power 90°/30° - ambient temperature 85°C	± 1% Contact resistance variation : < 1% Rn	± 2%
Climatic Sequence	Phase A dry heat 100°C Phase B damp heat Phase C cold – 55°C Phase D damp heat 5 cycles	± 1%	± 2%
Long Term Damp Heat	56 days	± 1% Dielectric strength : 1000 VRMS Insulation resistance : > 10 ⁴ MΩ	± 2%
Rapid Temperature Change	5 cycles – 55°C at + 125°C	± 1%	$\Delta \frac{V_{ab}}{V_{ac}}$: ± 2%
Shock	50g 11ms 3 successive shocks in 3 directions	± 0.5%	± 1%
Vibration	10 - 55Hz 0.75mm or 10g during 6 hours	± 0.5 %	$\Delta \frac{V_{ab}}{V_{ac}}$: ± 1%
Rotational Life	200 cycles	± 3% Contact resistance variation : < 2% Rn	

**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	+ 200
20		3.2	160	
50		5	100	
100	↓	7	70	±100
200		10	50	
500		15.8	32	
1k		22.4	22	
2k		31.8	16	
5k		50	10	
10k		70.7	7	
20k		100	5	
50k		158	3.2	
100k		224	2.2	
200k	0.5	300	1.5	
500k	0.45	300	0.6	
1M	0.18	300	0.3	
2M	0.09	300	0.15	
	0.05			

MARKING

VISHAY logo, style, ohmic value, manufacturing date, pin '3'.

The ohmic value is indicated by a 3 figure code: the first two are significant figures, the third one is the multiplier.

Example : 100 = 10Ω

101 = 100Ω

102 = 1000Ω

503 = 50000Ω

The manufacturing date is indicated by a 3 figure code.

The first digit is the year, the last two are the week number.

PACKAGING

In magazine pack by 50 pieces (tube), code TU50

ORDERING INFORMATION

T20
SERIES

XH
STYLE
XX YP
XH YM

500kΩ
OHMIC VALUE

± 10%
TOLERANCE

TU50
PACKAGING
TU50: tube

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