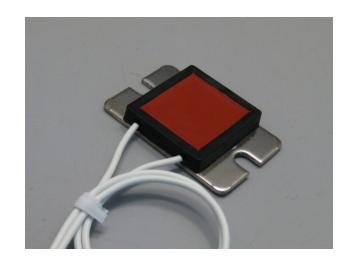


300W CHASSIS MOUNTING NON-INDUCTIVE FLAT TYPE HIGH POWER RESISTORS

TCP320



Features and Applications

Flat type, 300W high power resistor. Attaching an air-cooled heat sink or water-cooling necessary. Rated power is 300W (one element).

Custom resistance and power resistor network available.

Higher density packing, vibration-proof, insulation withstand voltage and perfect heat dissipation possible. Applications include snubber resistors, surge protection, breeder resistor, filter resistor, dummy load, gate resistor, dumping resistor for power electronics, automotive electronics, pulse generators, high frequency amplifiers, theater audio equipment, etc.

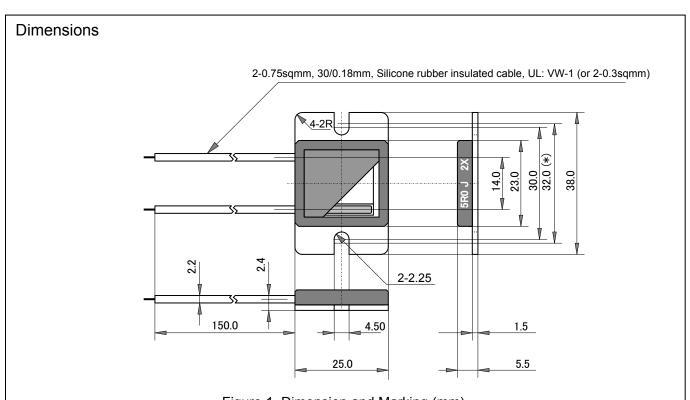


Figure 1. Dimension and Marking (mm)

^{*} M4 for mounting screw.



300W TCP320

CHASSIS MOUNTING NON-INDUCTIVE FLAT TYPE HIGH POWER RESISTORS

Ordering Information

	Type	TCR	Resistance	Tolerance	Code	Note
	TCP320 -	Α	10R	J	TY	Please note optional '5kVAC'
-	1					•
Ī	TCP320	100ppm	10R	J (5%)	TY	RoHS tray package
	TCP320-5KV	·	E24+ (*)			

(*) Recommend resistance value, when request for optional resistance please call factory.

,	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.5	2.7	3.0	3.3
	3.6	3.9	4.0	4.3	4.7	5.0	5.1	5.6	6.2	6.8	7.5	8.0	8.2	9.1

Specifications and Performances

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Items	Specifications	Conditions					
Rating Power	300 Watts	At flange temperature -55 to +25 deg C					
Heat Resistance	0.23 deg C/W	From resistor to flange					
Resistance Range	0.1 ohm to 51K ohm	0.1ohm to 0.82 ohm, option					
Nominal Resistance	E24+	Additionally, 2.0 and 5.0.					
TCR	+/-100 ppm/K (A)	For -55 to +155 deg C, exclude wire leads					
Tolerance	+/-5% (J)						
Operation Temp.	-55 to +155 deg C	At resistor element surface					
Limiting Voltage	2000V / $\sqrt{P} \times R$	Less than either 2000V or $\sqrt{P \times R}$, between terminals					
Withstanding Voltage	2k VAC (5kVAC option)	60 seconds between terminals and flange. Leak current below 0.5mA					
Load Life	∠ R+/-1.0 %	Continuous power 1000 hours.					
Humidity	∠ R+/-1.0 %	60 deg C, 90 to 95%RH, DC0.1W, 1000hours.					
Temperature Cycle	∠ R+/-1.0 %	-55 deg C, 30 min.,+155 deg C 30min., 5 cycles. (-40-+125, 1200cycles)					
Insulation Resistance	Over 1000 Meg ohm	Between terminals and flange.					
Vibration	∠ R+/-0.5 %	Note 2					
Flammability	UL94V-0	For resistor body					
Weight	20 grams	May be changed by lead length.					

Note 1: Torque: Mounting 1.6Nm max, 1.0Nm recommend.

Note 2: IEC60068-2-6, displacement 0.75mm or acceleration 100m/sec^2, 10Hz-54Hz sweep, 10 cycles X-Y-Z direction.

