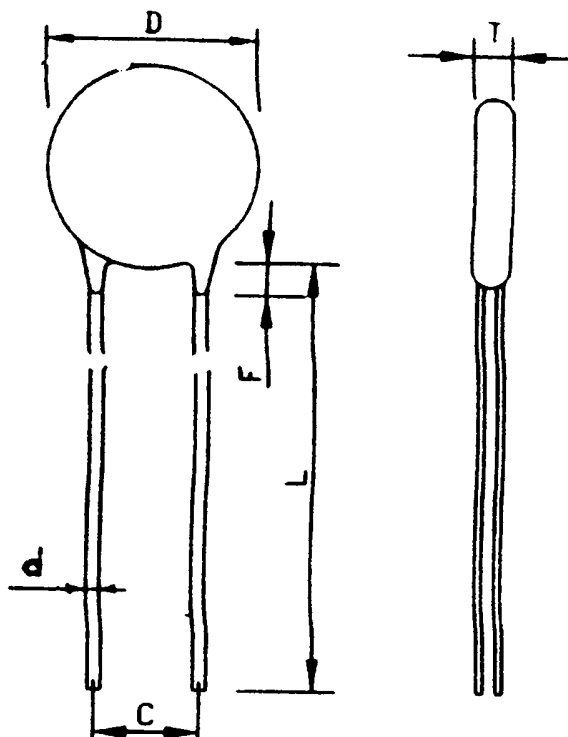


Specification of TVR Varistor for Surge Voltage Suppression

PART NO. TVR 07471

1. Dimensions



ITEM	D	L	d	C	T
MAX	9.5	---	0.62	8.5	7.5
MIN	---	30	0.58	6.5	---

(Unit:mm)

- 1-1 Material of coating : Epoxy resin
- 1-2 Material of leads : tinned Copper Wires
- 1-3 Color of coating : Loess:

1-4 Marking: Ultra-violet Print

2. Electrical Characteristics (Ambient $T_a=25^{\circ}\text{C}$)

2-1

	Item	Symbol	Conditions	Value	Unit
a	Normal Varistor Voltage	$V_{1mA}(V)$	1mA DC	470	V
b	Max. Clamping Voltage	V_p	-----	775	V
		I_p	8/20 μ S	1200	A

2-2

	Item		Value	Unit
a	Max. Allowable Voltage	AC rms	300	V
		DC	385	V
b	Max. Peak Current(8/20 μ S)	1 time	1200	A
		2 time	600	A
c	Reference Capacitance@1KHZ		250	PF
d	Operating temperature Range		-40----+85	$^{\circ}\text{C}$
e	Storage Temperature Range		-40----+125	$^{\circ}\text{C}$

3. Mechanical Characteristics

3-1 Tensile Strength of Terminals Test

Conditions	Test Result	
Fasten body with a Load Applied to each lead 1.0 kg for 10 sec	No break out and damage	OK

3-2 Bending Strength of terminals Test

Conditions	Test Result	
Fixed body hang 0.5 kg on one terminal bend 90 then back again in opposite	No break out and damage	OK

4. Reliability Test

Item	Test Conditions	Variable
Temp. Cycle Test	$\left. \begin{array}{l} -40^{\circ}\text{C} \times \rightarrow +25^{\circ}\text{C} \times 3\text{min} \\ -85^{\circ}\text{C} \times \rightarrow +25^{\circ}\text{C} \times 3\text{min} \end{array} \right\} \times 5\text{Cycles}$	$\frac{\Delta V_b}{V_b} \leq \pm 5\%$
Humidity Test	$40^{\circ}\text{C} \quad 95\%\text{RH} \times 1000\text{Hrs}$	$\frac{\Delta V_b}{V_b} \leq \pm 5\%$ $R \geq 100\text{M} \Omega$
High Temperature Storage	$125^{\circ}\text{C} \times 1000\text{HRS}$	$\frac{\Delta V_b}{V_b} \leq \pm 5\%$
High Temperature Operation	Appiled at the maximum allowable Voltage $85\% \times 1000\text{HRS}$	$\frac{\Delta V_b}{V_b} \leq \pm 10\%$ $R \geq 1\text{G} \Omega$
Surge Life	Impuls listed below $\times 10000$ times In the interval of ten seconds $160\text{A}(8/20 \mu \text{S})$	$\frac{\Delta V_b}{V_b} \leq \pm 10\%$
Insulation Test	$\text{DC } 500\text{V}$	$R \geq 1\text{G} \Omega$