

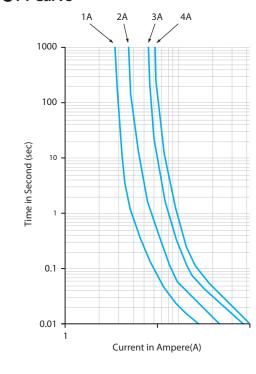
ICP is a kind of multi-functional Protector:

ICP can limit inrush current which is generated at the moment when power is on, and ICP cuts off overcurrent like fuse in case of abnormal condition.

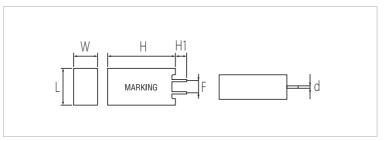
#### Features

- Effective control of inrush current.
- Quick cut-off time (like fuse)
- Stable against repeated surge voltage.
- Diminishing space for convenient use and auto-insertion.

# I-T Curve



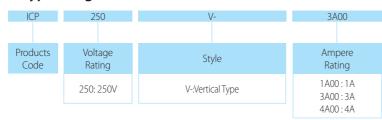
#### Dimension



RoHS HF

Dimension (mm)					
L±1.0	W±1.0	H±1.5	H1±0.5	F±0.5	Фd±0.02
11.0	8.0	20.0	4.0	5.0	0.7

# Type Designation



#### Characteristics

Ampere Rating (A)	Voltage Rating (V)	Nominal Resistance Cold Ohms (Ω)	Resistance Tolerance (%)	Operating Temperature (°C)	Ambient Temperature (°C)
1A	1A 2A 3A 250	0.400	K:±10	-55 ~	70
2A		0.250			
3A		0.160			70
4A		0.110		+125	

# Performance

Test Items	Performance Requirements	Test Methods	
Resistance	Within specified tolerance	Measuring resistance at 25℃	
	% of Ampere Rating	Open time	
Current Test	Under 2A / 400%	- Ssec, Max	
	Above 2A / 300%	SSEC, IVIAX	
T.C.R	Within 4,500±1,500 PPM/°C	+25°C / +125°C	

Specification given here in may be changed at any time without prior notice. Please confirm technical specifications before you order or use.

# **Thermal Cutoff Protector**

# Dimension

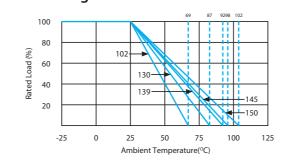


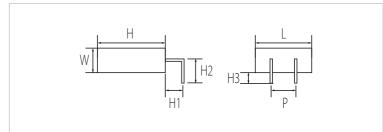
TCP is resistor that its resistance material is metal alloy wire wounded on ceramic core, then connected with Thermal fuse and this object with terminals inserted into the ceramic case which has good thermal conductivity.

#### Features

- Excels in surge withstanding capability
- Suitable for the prevention of inrush current for switching regulations.
- The dispersion in fusing characteristics has been minimized and assure high stability performance
- Respond quickly to over loading as well as ' external overheating

# Derating Curve





		Dimension (mm)							
Туре	1 1 1 0	W <sub>1</sub> O2	W±0.2 H±1.0 H1±0.5	112 1 1 0	112104	D : 1 0	Фd±0.02		
	L±1.0	VV±U.2	Π±1.0	H1±0.5	H2±1.0	H3±0.4	P±1.0	Resistor	Fuse
2W	11.5	5.5	18.5	3.0	6.25	3.4	5.0	0.8	0.5

### Type Designation

/ 1	3			
TCP	02	2B	3R00	J
Products Code	Power Rating	Fuse Rating	Nominal Resistance	Resistance Tolerance
	02 : 2W	2B:2A,139℃	3R00 : 3Ω	J:±5%

## Fuse Rating

Thermal	Type Thermal Fuse					
Fuse Symbol	Nominal Open Temp. (℃)	Voltage Rating (V)	Current Rating (A)			
Е	102					
F	105					
K	130					
L	133	250	2			
В	139					
Т	145					
D	150					

### Characteristics

Туре	Max. Open	Resistance	Resistance	Operating	Ambient
	Circuit	Range	Tolerance	Temperature	Temperature
	Voltage (V)	(Ω)	(%)	(°C)	(°C)
2W	250	3	J:±5	-25 ~ +100	25

#### Performance

Test Items	Performance Requirements	Test Methods
DC Resistance	Within specified tolerance	Measuring resistance at 25 ℃
T.C.R	Under ±400 PPM/℃	+25 °C / +100°C (Difference from thermistor fuse a vailability)
Resistance Against Soldering Test	$\pm (2\% + 0.05\Omega)$	$260 \pm 5$ °C, $2\sim2.5$ mm, $10 \pm 1$ sec, Measure resistance after 1hour at room temp.
Load Life in Moisture	$\pm (5\% + 0.1\Omega)$	40±2°C, 90∼95%RH, 1.5hr ON / 0.5hr OFF cycle, 1,000hr
Load Life in Temperature $\pm (5\% + 0.1\Omega)$		70±2℃, 1.5hr ON / 0.5hr OFF cycle, 1,000hr

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