

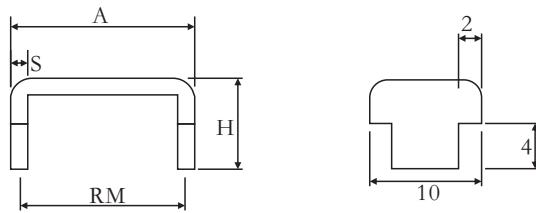
## Features

- Low resistance value that withstand high current
- Compatible with automotive part
- Customized products are available
- Stable performance and perfect reliability

## Applications

- Current sensing
- Low inductance
- Surge and pulse

## Dimensions, Power and Resistance Etc



Type	Rated Power (W)	Dimensions (mm)				Resistance Range( $\Omega$ )	
		A $\pm$ 0.5	S $\pm$ 0.5	H $\pm$ 0.5	RM $\pm$ 0.5	Minimum	Maximum
MX5	5W	16.5	1.5	8	15	0.001	0.01

## Ordering Information

Example:

MX5	5	F	R01	C
(1)	(2)	(3)	(4)	(5)
Series Name	Power Rating	Resistance Tolerance	Resistance Value	TCR

(1)Type: MX5 SERIES

(2)Power Rating: 5=5W

(3)Tolerance: F=  $\pm$  1%、G=  $\pm$  2%、H=  $\pm$  3%、J=  $\pm$  5%、K=  $\pm$  10%

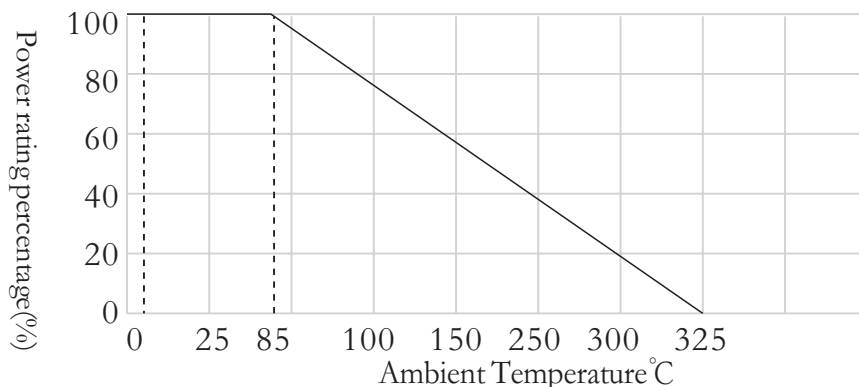
(4)Resistance Value:R10=0.01 $\Omega$ 、R003=0.003 $\Omega$

(5)TCR:  $\pm$  20ppm/ $^{\circ}$ C

## Reference Standards

IEC 60115-1

## Derating Curve



## ● Performance Characteristics

Parameter / Performance Test & Test Method	Performance Requirements
Power Rating (Rated Ambient Temperature)	Full power dissipation at 85°C and linearly derated to zero at +325°C
Insulation	Not Insulated
Resistance Tolerance	±10%[K]; ±5%[J]; ±3%[H]; ±2%[G]; ±1%[F]
Temperature Range	-55°C to+325°C with suitable derating as per derating curve above
Voltage Rating / Limiting Voltage / Max. Working Voltage	$\sqrt{P \times R}$
Short time Overload (5 x Rated Power for 5 Secs.)	$\Delta R \pm [ 0.75 \% + R0005 ]$ - Average $\Delta R \pm [ 1.25 \% + R0005 ]$ - For resistance values near maximum range
Temperature Co-efficient of Resistance (Measured from -55°C to +125°C referenced to +30°C)	TCR To ±20 ppm/°C [ Depending on resistance value ]
Damp Heat (Steady State) (40°C at 93 % R.H. for 1000 Hrs. – no load applied)	$\Delta R \pm [ 0.5 \% + R0005 ]$ – Average
Endurance – Load Life [ 70°C with limiting voltage -1.5 hours on / 0.5 hours off for 1000 hours ]	$\Delta R \pm [ 2.75 \% + R0005 ]$ -Average
Resistance to Soldering heat - (260°C-270°C for 10 Secs)	$\Delta R \pm [ 0.2 \% + R0005 ]$ -Typical
Solderability ( As per IEC pub. 60068-2-20 )	Must meet the requirements laid down