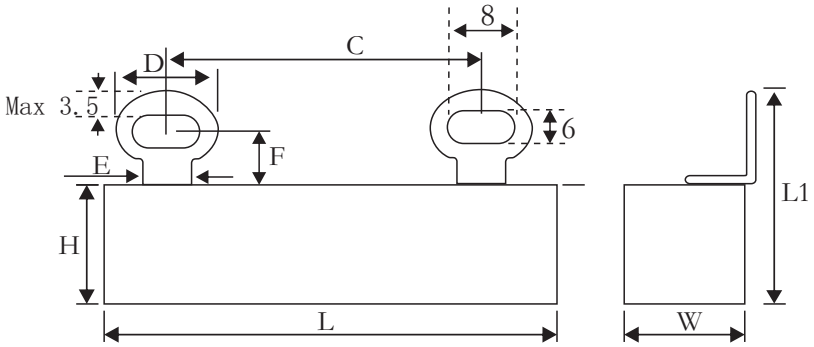
Features

I Good heat-durability,low temperature coefficient, low noise,high load power, high insulating capacity.

II Operating ambient temperature:-55℃ to +275℃

Dimensions



Type	Power (W)	Dimensions(mm)							
		L ± 1	W ± 1	H ± 1	C ± 1	D ± 0.5	L1± 1.0	E	F
MS 2	7	48	12.5	12.5	31.7	12.5	28	5	8
MS 2	10	48	12.5	12.5	31.7	12.5	28	5	8
MS 2	15	48	12.5	12.5	31.7	12.5	28	5	8
MS 2	20	63	12.5	12.5	35.0	12.5	28	5	8

Ordering Information

Example:

MS 2	10	J	10R00
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance

(1)Type: MS 2 SERIES

(2)Power Rating:7=5W,10=10W,15=15W,20=20W

(3)Tolerance:F=±1%,G=±2%, J=±5%, K=±10%

(4)Resistance Value:0R100=0.1Ω,1R000=1Ω,4R700=4.7Ω,10K00=10KΩ

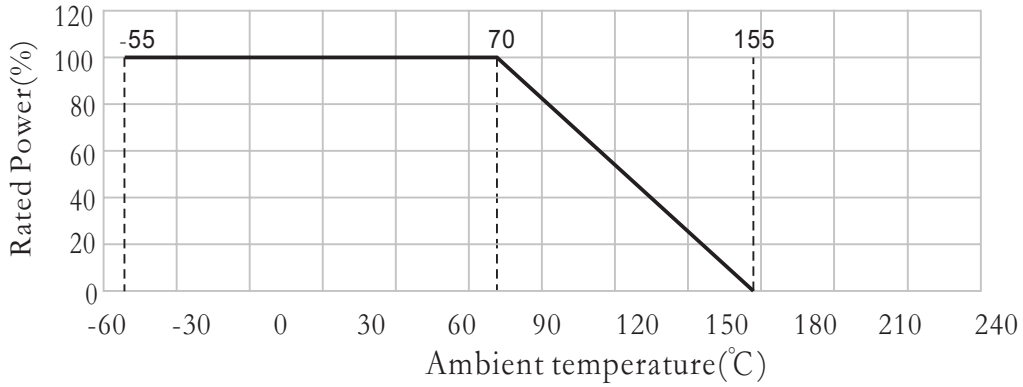
Reference Standards

JISC 5201-1

Power and Resistance etc

Type	Power (W)	Resistance Range(Ω)	Tolerance Range	Max. working voltage	Insulation voltage	Max. overload voltage
MS 2	7	1R~100KR	J±5% K±10%	$\sqrt{PR}$	700V	1000V
MS 2	10	1R~100KR		$\sqrt{PR}$	1000V	1500V
MS 2	15	1R~100KR		$\sqrt{PR}$	1000V	1500V
MS 2	20	1R~100KR		$\sqrt{PR}$	1000V	1500V

Derating Curve



Performance

Test Items	Performance	Test Methods(JIS C 5201-1)
Temperature coefficient	±300ppm/℃	Test resistance value at normal temperature and normal temperature added 100℃, calculate 70℃ resistance value change rate.
Short time overload	△R≤±(2%R0+0.05Ω)	1~4W:According 5 times rated power to account the voltage, 5~10W: According 10 times rated power to account the voltage or max. overload voltage(get the lower) for 5 seconds.
Resistance to soldering heat	△R≤±(1%R0+0.05Ω)	Immerge into the 350±10℃ tin stove for 2~3 seconds
Solderability	Tth soldering area is over 95%	Immerge into the 245±3℃ tin stove for 2~3 seconds
Temperature cycle	△R≤±(1%R0+0.05Ω)	At-55℃ for 30min, then at+25℃ for 10~15min,then at +275℃ for 30min, then at +25℃ for 10~5, min,total 5cycles.
Load life in humidity	△R≤±(5%R0+0.05Ω)	Overload rated voltage or Max.working voltage(get the lower)for 1000hours (1.5hours on and half-hour off) at the 40±2℃ and 90~95% relative humidity.
Nonflammability	No visible flame	Respectively load AC voltage by 5,10,16 times rated power for 5 minutes.