

## Current Sensing Resistors, Metal Plate Type

Type: **ERJM1W**



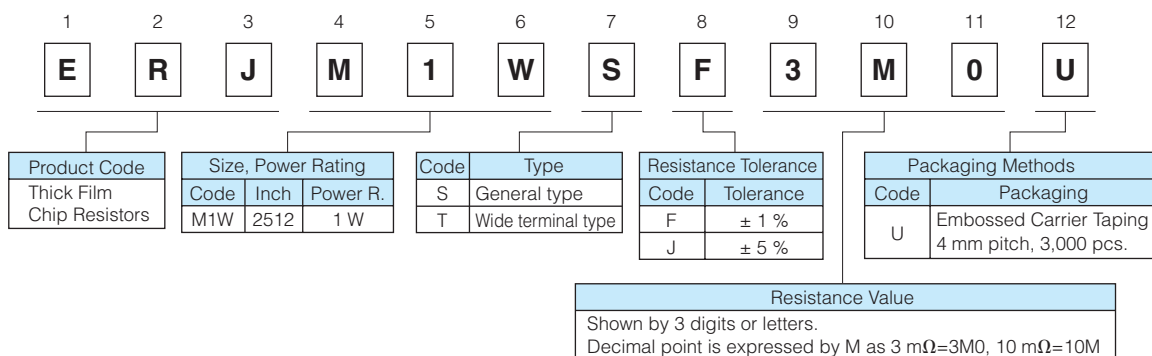
### Features

- Low resistance values and high precision (1 mΩ to 20 mΩ)
- Stable resistance not influenced by measurement position
- High heat emission
- Low profile, strong body
- Inductance less than 1.0 nH for the metal plate structure
- RoHS compliant

### As for Packaging Methods, Soldering Conditions and Safety Precautions,

Please see Data Files

### Explanation of Part Numbers



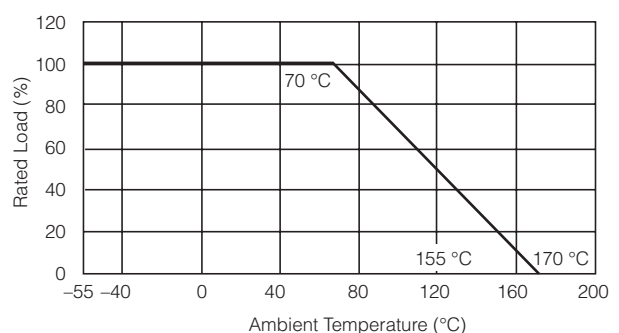
### Ratings

Part No. (inch size)	Power Rating at 70 °C (W)	Standard Resistance (mΩ)	Resistance Tolerance (%)	T.C.R. (×10 <sup>-6</sup> /°C)	Category Temperature Range (°C)	Circuit board of use
ERJM1WS (2512)	1	3, 4	F: ±1, J: ±5	±350	-55 to +170	You should use the aluminum substrate when the added wattage exceeds 0.5 W.
		5, 6, 10, 15, 20		±100		
ERJM1WT (2512)		1, 1.5		350±100		
		2, 3, 4		100±50		

\* Please contact the factory for other values and the range

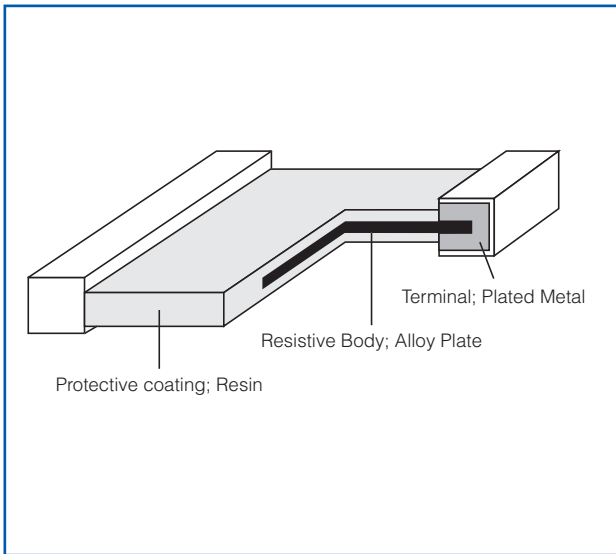
### Power Derating Curve

For resistors operated in ambient temperatures above 70 °C, power rating shall be derated in accordance with the figure on the right.

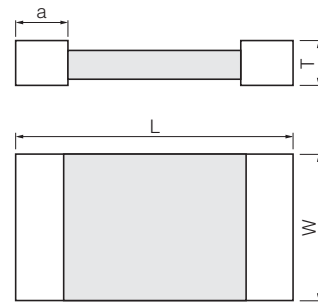


# Panasonic Current Sensing Resistors, Metal Plate Type

## Construction



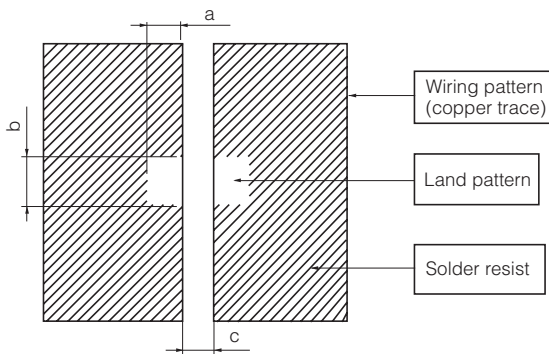
## Dimensions in mm (not to scale)



Type	Part No. (inch size)	Dimensions (mm)				Mass (Weight) [g/1000 pcs.]
		L	W	T	a	
S Type	ERJM1WS (2512)	6.40 $\pm$ 0.25	3.20 $\pm$ 0.25	0.80 $\pm$ 0.30	1.00 $\pm$ 0.25	70
T Type	ERJM1WT (2512)	6.40 $\pm$ 0.40			2.10 $\pm$ 0.30	

## Recommended Land Pattern

- An example of a land pattern



Part No.	Dimensions (mm)		
	a	b	c
ERJM1WS	2.1	3.4	4.2
ERJM1WT	3.1	3.4	2.2