Current Sensing Resistors, Metal Plate Type

Type: ERJM1W



Features

- Low resistance values and high precision (1 m Ω to 20 m Ω)
- 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



Ratings									
Part No. (inch size)	Power Rating at 70 °C (W)	Standard Resistance (m Ω)	Resistance Tolerance (%)	T.C.R. (×10 ⁻⁶ /°C)	Category Temperature Range (°C)	Circuit board of use			
ERJM1WS (2512) ERJM1WT (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					
		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 $^{\circ}$ C, power rating shall be derated in accordance with the figure on the right.



Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

Panasonic Current Sensing Resistors, Metal Plate Type



Dimensions in mm (not to scale)									
					>				
					_				
_	Part No.	Dimensions (mm)							
Туре	(inch size)	L	W	Т	а	Mass (Weight) [g/1000 pcs.]			
S Туре	ERJM1WS (2512)	6.40 ^{±0.25}	3.20 ^{±0.25}	0 90±0.30	1.00 ^{±0.25}	70			
T Type ERJM1WT (2512)		6.40 ^{±0.40}		0.00	2.10 ^{±0.30}	90			

Recommended Land Pattern



Part No.	Dimensions (mm)				
Fait NO.	а	b	С		
ERJM1WS	2.1	3.4	4.2		
ERJM1WT	3.1	3.4	2.2		