Low Resistance Value Chip Resistors (Current Sensing Resistors) 0603, 2512

Type: **ERJM03 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

■ Packaging Methods Please see Pages 40 to 43 ■ Recomm

■ Recommended Land Pattern Please see Pages 44 to 45

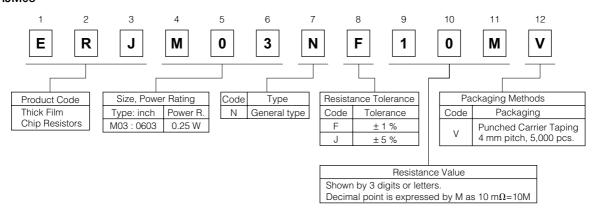
Recommended Soldering Conditions Please see Page 46

■Safety Precautions

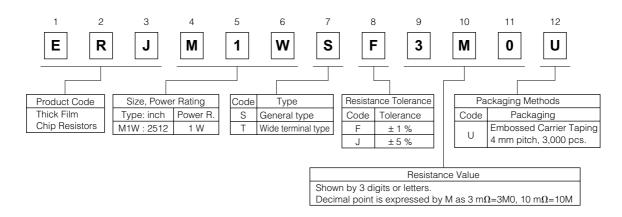
Please see Page 47

■ Explanation of Part Numbers

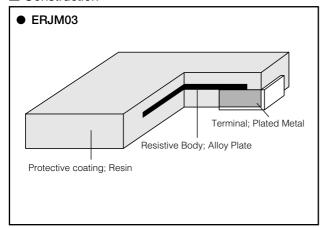
ERJM03

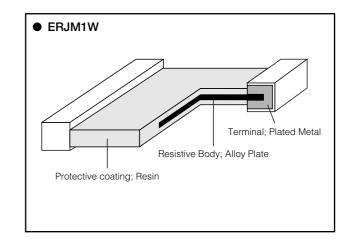


ERJM1W

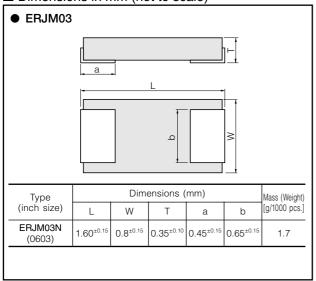


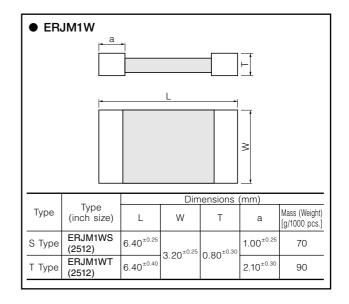
■ Construction





■ Dimensions in mm (not to scale)





Ratings

Type (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
ERJM03N (0603)	0.25	10	F: ±1, J: ±5	±100	-55 to +155	_
ERJM1WS (2512)	- 1	3, 4		±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 $^{\circ}$ C, power rating shall be derated in accordance with the figure on the right.

