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

Type: ERJM03
ERJM1W





#### ■ Features

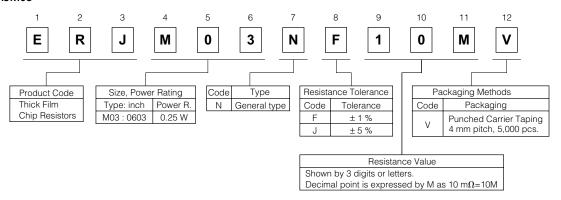
- Low resistance values and high precision(1 m $\Omega$  to 20 m $\Omega$ )
- Stable resistance not influenced by measurement position
- High heat emission
- Low profile, strong body
- Inductance less than 1.0 nH for the metal plate structure

■ Packaging Methods Please see Pages 40 to 43 ■ Recommended Land Pattern Please see Pages 44 to 45

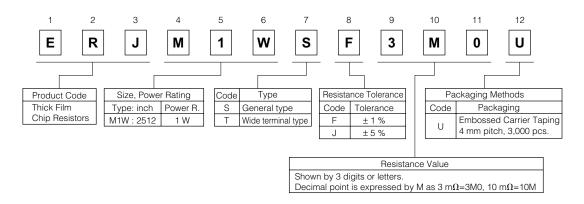
■ Recommended Soldering Conditions Please see Page 46 ■ Safety Precautions Please see Page 47

### ■ Explanation of Part Numbers

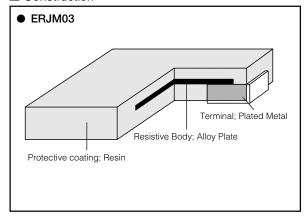
#### ERJM03

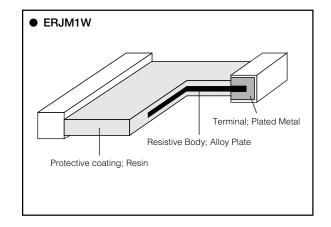


#### ERJM1W

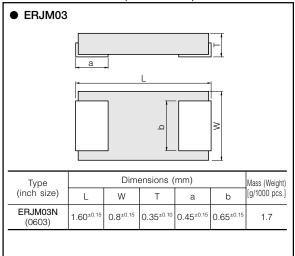


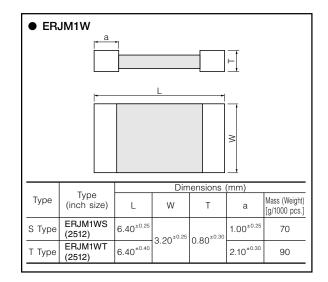
#### ■ Construction





## ■ Dimensions in mm (not to scale)





# ■ Ratings

Type (inch size)	Power Rating at 70 °C (W)	Standard Resistance (m $\Omega$ )	Resistance Tolerance (%)	T.C.R. (×10 <sup>-6</sup> /°C)	Category Temperature Range (°C)	Circuit board of use
ERJM03N (0603)	0.25	10	F: ±1, J: ±5	±100	-55 to +155	-
ERJM1WS		3, 4		±350	-55 to +170	You should use the aluminum substrate when the added wattage exceeds 0.5 W.
(2512)	1	5, 6, 10, 15, 20		±100		
ERJM1WT (2512)		1, 1.5		350±100		
		2, 3, 4		100±50		

<sup>\*</sup> 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.

