

Anti-Sulfurated High Power Chip Resistors / Wide Terminal Type



Type: **ERJ C1**

Features

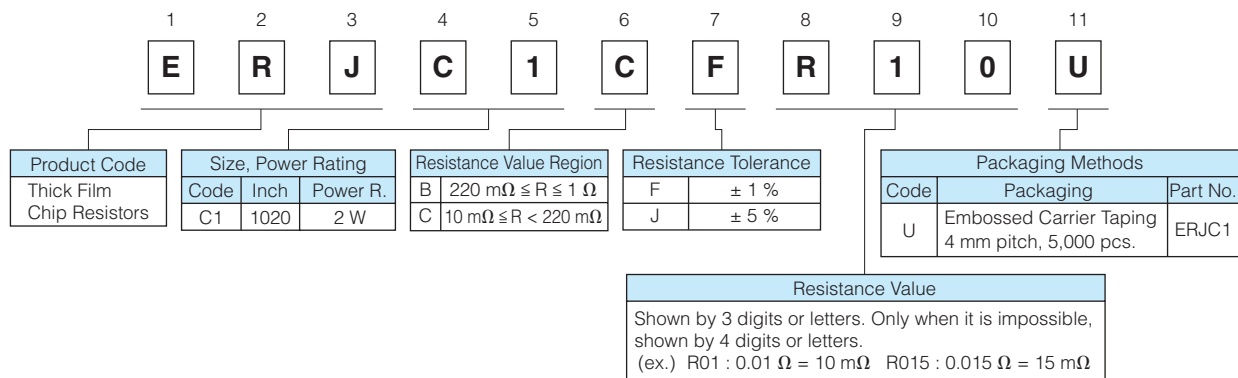
- High resistance to sulfurization achieved by adopting Anti-Sulfurated electrode structure and material
- High solder-joint reliability by wide terminal construction
- Excellent heat dissipation characteristics by wide terminal construction
- AEC-Q200 qualified
- RoHS compliant

Recommended Applications

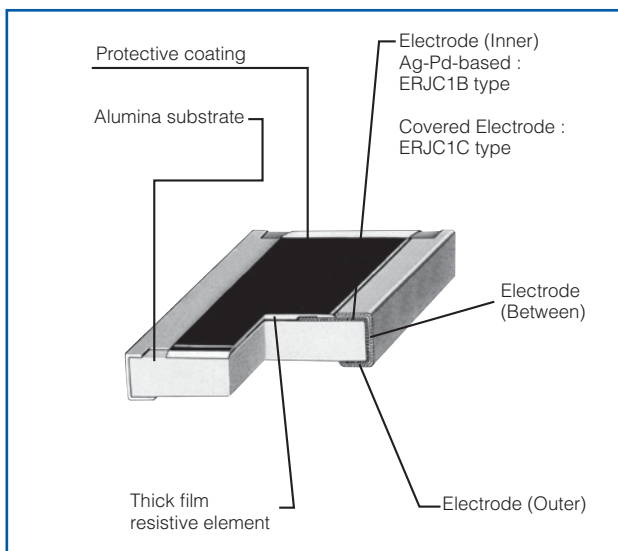
- Motor control circuit of the industrial equipment
- Automotive electronic circuits including ECUs (Electrical control unit), anti-lock braking systems and air-bag systems
- Current sensing for power supply circuits in a variety of equipment

■ **As for Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions,**
Please see Data Files

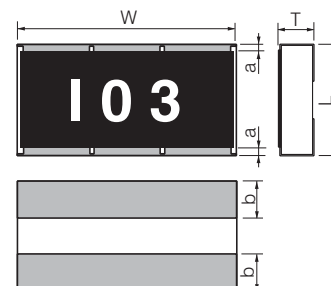
Explanation of Part Numbers



Construction



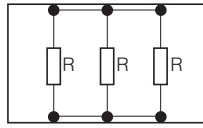
Dimensions in mm (not to scale)



Part No. (inch size)	Dimensions (mm)					Mass (Weight) [g/1000 pcs.]
	L	W	T	a	b	
ERJC1B (1020)	2.50±0.20	5.00±0.20	0.55±0.20	0.35±0.20	0.90±0.20	27
ERJC1C (1020)				0.60±0.20		

Circuit Configuration

Type ERJC1



Ratings

Part No. (inch size)	Power Rating at 70 °C ⁽¹⁾ (W)	Resistance Tolerance (%)	Resistance Range (Ω)	T.C.R. ($\times 10^{-6}/^{\circ}\text{C}$)	Category Temperature Range ($^{\circ}\text{C}$)
ERJC1 (1020)	2	± 1	10 m to 1 (E24)	$10\text{ m}\Omega \leq R < 22\text{ m}\Omega : \pm 350$ $22\text{ m}\Omega \leq R < 47\text{ m}\Omega : \pm 200$ $47\text{ m}\Omega \leq R < 100\text{ m}\Omega : \pm 150$ $100\text{ m}\Omega \leq R \leq 1\ \Omega : \pm 100$	-55 to +155
		± 5		$10\text{ m}\Omega \leq R < 22\text{ m}\Omega : \pm 350$ $22\text{ m}\Omega \leq R < 1\ \Omega : \pm 200$	

(1) Use it on the condition that the case temperature is below 155 °C.

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.

