

Anti-Sulfurated High Power Chip Resistors / Wide Terminal Type

Type: ERJ C1

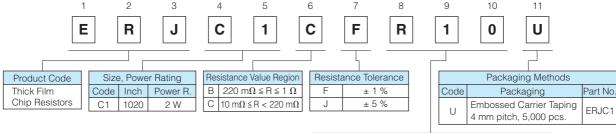
Features

- 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

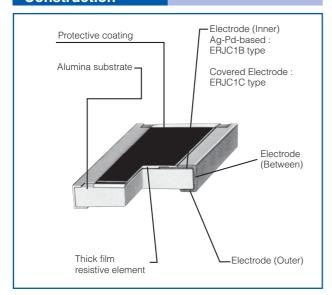
- Motor control circuit of the industrial equipment
- Automotive electronic circuits including ECUs (Electrical control unit), anti-lock breaking systems and air-bag systems
- Current sensing for power supply circuits in a variety of equipment
- As for Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions, Please see Data Files



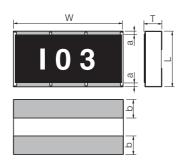


Resistance Value Shown by 3 digits or letters. Only when it is impossible, shown by 4 digits or letters (ex.) R01 : 0.01 Ω = 10 m Ω R015 : 0.015 Ω = 15 m Ω

Construction



Dimensions in mm (not to scale)



Part No. (inch size)		Mass (Weight)				
	L	W	Т	а	р	[g/1000 pcs.]
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		

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 04 Sep. 2014



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Circuit Configuration



Ratings

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

⁽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.

