Panasonic High Power Chip Resistors / Wide Terminal Type

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Type: ERJ A1, B1, B2, B3

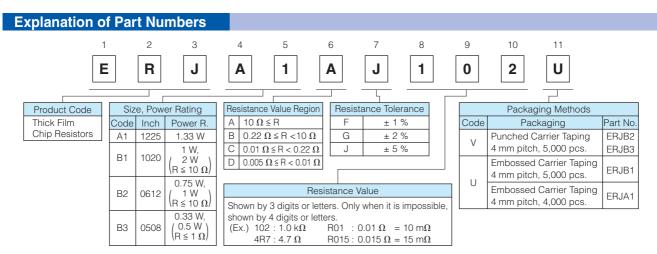
Features

- High solder-joint reliability by wide terminal construction
- Excellent heat dissipation characteristics by wide terminal construction
- AEC-Q200 gualified
- RoHS compliant

Recommended Applications

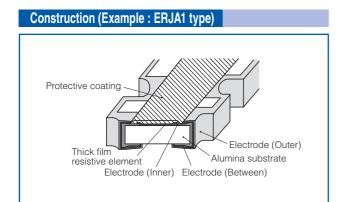
- Automotive electronic circuits including ECUs (Electrical control unit), anti-lock breaking systems and air-bag systems
- Current sensing for power supply circuits in a variety of equipment

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



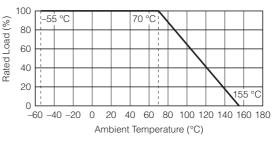
Ratings										
Part No. (inch size)	Power Rating at 70 °C (W)	Limiting Element Voltage ⁽¹⁾ (V)	Maximum Overload Voltage ⁽²⁾ (V)	Resistance Tolerance (%)	Resistance Range (Ω)	T.C.R. (×10 ^{−6} /°C)	Category Temperature Range (°C)			
ERJA1	1.33	200	400	±1	100 m to 10 k (E24)		–55 to +155			
(1225)				±2, ±5	10 m to 10 k (E24)	$ \begin{array}{c} 100 \text{ m}\Omega \leq \text{R} : \pm 100 \ (\pm 1\%) \\ \pm 200 \ (\pm 2\%, \ \pm 5\%) \end{array} $				
ERJB1 (1020)	1 2(R ≦ 10 Ω)	200	400	±1, ±2, ±5	10 m to 10 k (E24)	$\begin{array}{l} R < 22 \ m\Omega : \pm 350 \\ 22 \ m\Omega \leq R < 47 \ m\Omega & : \pm 200 \\ 47 \ m\Omega \leq R < 100 \ m\Omega & : \pm 150 \ (\pm 1\%) \\ \pm 200 \ (\pm 2\%, \pm 5\%) \\ 100 \ m\Omega \leq R : \ \pm 100 \ (\pm 1\%) \\ \pm 200 \ (\pm 2\%, \pm 5\%) \end{array}$	-55 to +155			
				±1, ±2	10 m to 1 M (E24)	R < 22 mΩ : 0 to +300				
ERJB2 (0612)	0.75 1(R ≦ 10 Ω)	200	400	±5	5 m to 1 M (5 m to 9 m : 1mΩ step 10 m to 1 M : E24	$\begin{array}{lll} 22 \ m\Omega \leq R < 47 \ m\Omega & : \ 0 \ to +200 \\ 47 \ m\Omega \leq R < 100 \ m\Omega & : \ 0 \ to +150 \\ 100 \ m\Omega \leq R < 220 \ m\Omega & : \ 0 \ to +150 \ (\pm1\%) \\ 0 \ to +200 \ (\pm2\%, \pm5\%) \\ 220 \ m\Omega \leq R : & \pm100 \ (\pm1\%) \\ \pm200 \ (\pm2\%, \pm5\%) \end{array}$	–55 to +155			
ERJB3 (0508)	0.33 0.5(R ≦ 1 Ω)	150	200	±1, ±2, ±5	20 m to 10 (E24)	$\begin{array}{l} {\sf R} < 47 \mbox{ m}\Omega : 0 \mbox{ to } +300 \\ 47 \mbox{ m}\Omega \le {\sf R} \le 1 \ \Omega : 0 \mbox{ to } +200 \\ 1 \ \Omega < {\sf R} : \pm 100 \ (\pm 1\%) \\ \pm 200 \ (\pm 2\%, \pm 5\%) \end{array}$	–55 to +155			

(1) Rated Continuous Working Voltage (RCWV) shall be determined from RCWV=\/Power Rating × Resistance Values, or Limiting Element Voltage listed above, whichever less. (2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV=2.5 × RCWV or max. Overload Voltage listed above whichever less.



Power Derating Curve

For resistors operated in ambient temperatures above 70 °C, power rating shall be derated in accordance with the figure below.

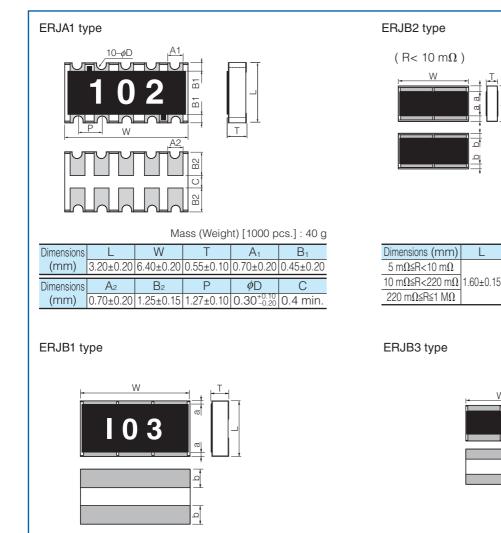


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W

3.20±0.20

Dimensions in mm (not to scale)



Mass (Weight) [1000 pcs.] : 27 g

Dimensions (mm)

Mass (Weight) [1000 pcs.] : 4.8 g

 $(10 \text{ m}\Omega \leq \text{R} \leq 1 \text{ M}\Omega)$

Mass (Weight) [1000 pcs.] : 11 g

0.65±0.15

0.55±0.15

0

0

а

0.30±0.20

25+0 20

۵

0

b

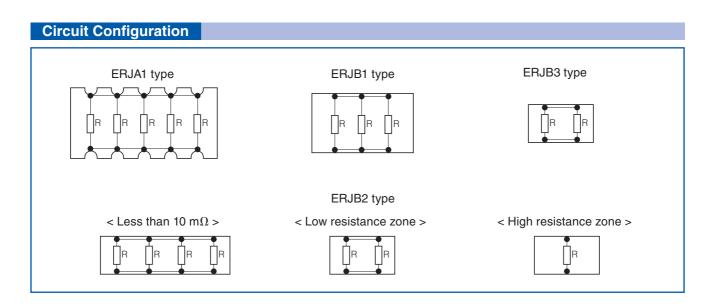
0.30±0.20

0.50±0.20

R 0

าร	L	W	Т	а	b	Dimensions	L	W	Т	а	b
	2.50±0.20	5.00±0.20		0.25±0.20	0.90±0.20	(mm)	1.25±0.10	2.00±0.15	0.50±0.10	0.25±0.20	0.40±0.20

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