Panasonic High Power Chip Resistors / Wide Terminal Type

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RIO

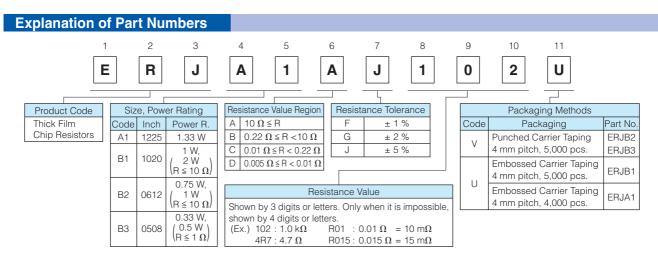
Type: ERJ A1, B1, B2, B3

Features

- High solder-joint reliability by wide terminal construction
- Excellent heat dissipation characteristics by wide terminal construction
- AEC-Q200 qualified
- 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



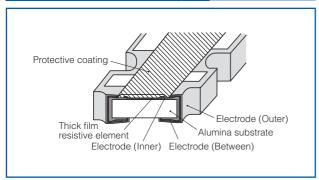
Ratings

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 22	200	400	±1	100 m to 10 k (E24)		FF to . 1FF
(1225)	1.33	200	400	±2, ±5	10 m to 10 k (E24)	$\begin{array}{c c} 100 \text{ m}\Omega \leq \text{R} : \pm 100 \text{ ($\pm 1\%$)} \\ & \pm 200 \text{ ($\pm 2\%$, $\pm 5\%$)} \end{array}$	–55 to +155
ERJB1 (1020)	1 2(R ≤ 10 Ω)	200	400	±1, ±2, ±5	10 m to 10 k (E24)	$\begin{array}{l} R < 22 m\Omega : \pm 350 \\ 22 m\Omega \leqq R < 47 m\Omega \ \ : \pm 200 \\ 47 m\Omega \leqq R < 100 m\Omega \ \ : \pm 150 (\pm 1\%) \\ \pm 200 (\pm 2\%, \pm 5\%) \\ 100 m\Omega \leqq R : \ \ \pm 100 (\pm 1\%) \\ \pm 200 (\pm 2\%, \pm 5\%) \end{array}$	-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}{llllllllllllllllllllllllllllllllllll$	-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} R < 47 \text{ m}\Omega : 0 \text{ to } +300 \\ 47 \text{ m}\Omega \le R \le 1 \Omega : 0 \text{ to } +200 \\ 1 \Omega < 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=\(\nabla_0\) were Rating \(\times\) 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 x RCWV or max. Overload Voltage listed above whichever less.

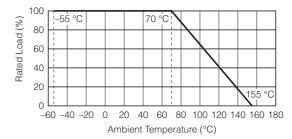
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Construction (Example : ERJA1 type)



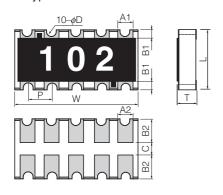
Power Derating Curve

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



Dimensions in mm (not to scale)

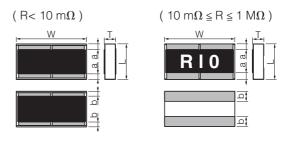




Mass (Weight) [1000 pcs.]: 40 g

Dimensions		W	Т	A ₁	B ₁
(mm)	3.20±0.20	6.40±0.20	0.55±0.10	0.70±0.20	0.45±0.20
Dimensions	A ₂	B ₂	Р	φD	С

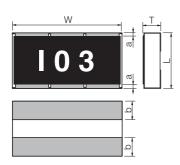
ERJB2 type



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

Dimensions (mm)	L	W	Т	а	b
5 mΩ≦R<10 mΩ			0.65±0.15	0 20 10 20	0.30±0.20
10 mΩ≦R<220 mΩ	1.60±0.15	3.20±0.20	0 55 : 0 15	0.30±0.20	0.50 - 0.20
$\frac{10 \text{ m}\Omega \leq R < 10 \text{ m}\Omega}{10 \text{ m}\Omega \leq R < 220 \text{ m}\Omega}$ $220 \text{ m}\Omega \leq R \leq 1 \text{ M}\Omega$			0.55±0.15	0.25±0.20	0.50±0.20

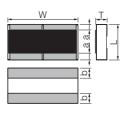
ERJB1 type



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

Dimensions	L	W	Т	а	b
(mm)	2.50±0.20	5.00±0.20	0.55±0.20	0.25±0.20	0.90±0.20

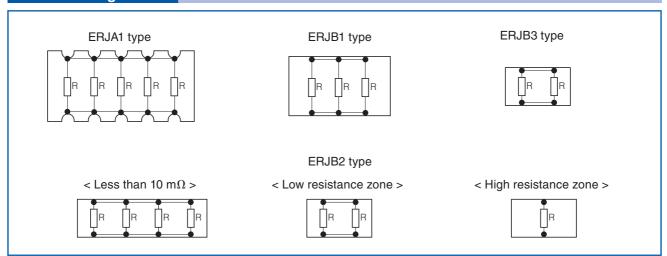
ERJB3 type



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

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

Circuit Configuration



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5112 65709-330JE PF2512FKF7W0R007L PR2512FKF7W0R003L PR2512FKF7W0R005L RCWL0603R500JNEA ERJ-3BQF1R1V ERJ-L14UJ42MU 2-2176088-5 PF2512FKF7W0R006L PF2512FKF7W0R033L 2-2176089-4 CD2015FC-0.10-1% PR2512FKF7W0R004L CGSSL1R01J CGSSL1R047J RC1005F124CS RCWE2512R110FKEA RCWL0805R330JNEA RL73H3AR47FTE RL73K3AR56JTDF RL7520WT-R001-F RL7520WT-R009-G RL7520WT-R020-F RLP73N1ER43JTD TL3AR01FTDG TLR3A20DR0005FTDG LRC-LR2512LF-01-R820J ERJ-3BQF4R3V ERJ-L14UF68MU TLR3A20DR001FTDG TLR3A30ER0005FTDG WR06X104JGLJ RLP73K1ER82JTD TL2BR01F TLR3A20DR01FTDG WSR3R0600FEA32 ERJ-14BQF1R6U ERJ-14BQJR30U SP1220RJT SP1R12J ERJ-14BQF6R2U RL7520WT-R039-G PF1206FRF7W0R02L RL7520WT-R002-F RL7520WT-R047-F RLP73N2BR068FTDF RL7520WT-R005-F RCWE2512R220FKEA RCWE120625L0FMEA