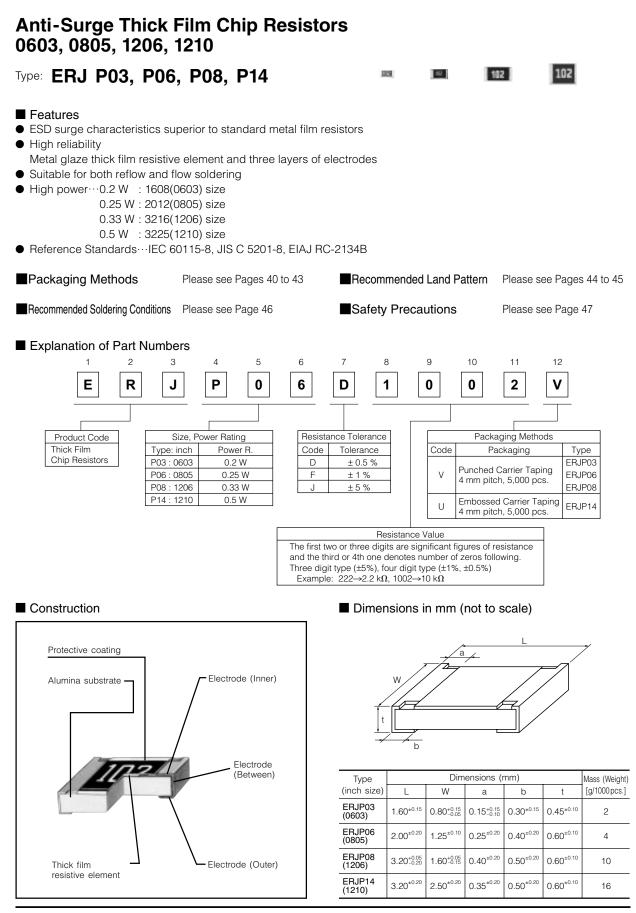
Panasonic



Ratings

Type (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)
ERJP03 (0603)	0.2	150	200	±0.5	10 to 1 M (E24, E96)	±150	–55 to +155
				±1	10 to 1 M (E24, E96)	±200	
				±5	1 to 1 M (E24)	± 200 Less than 10 Ω : -150 to +400	
ERJP06 (0805)	0.25	150 (400) ⁽³⁾	200 (600) ⁽³⁾	±0.5, ±1	10 to 1 M (E24, E96)	Less than 33 Ω : ±300 More than 33 Ω : ±100	–55 to +155
				±5	1 to 3.3 M (E24)	Less than 33 Ω : ±300 More than 33 Ω : ±200	
ERJP08 (1206)	0.33	200 (500) ⁽³⁾	400 (1000) ⁽³⁾	±0.5, ±1	10 to 1 M (E24, E96)	±100	–55 to +155
				±5	1 to 10 M (E24)	Less than 10 Ω : -100 to +600 More than 10 Ω : ±200	
ERJP14 (1210)	0.5	200	400	±0.5, ±1	10 to 1 M (E24, E96)	±100	
				±5	1 to 1 M (E24)	Less than 10 Ω : -100 to +600 More than 10 Ω : ±200	

(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 × Power Rating or max. Overload Voltage listed above whichever less.

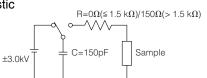
(3) Please contact us when resistors with guaranteed high voltage are need.

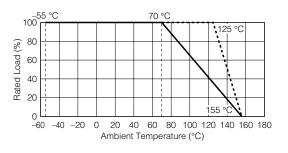
Power Derating Curve

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

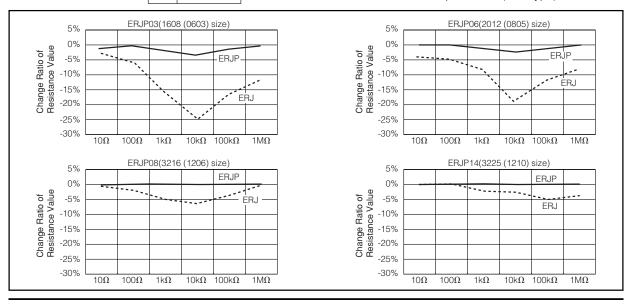
★ When the temperature of ERJP06/08/14 is 155 °C or less, the derating start temperature can be changed to 125 °C. (See the dotted line)

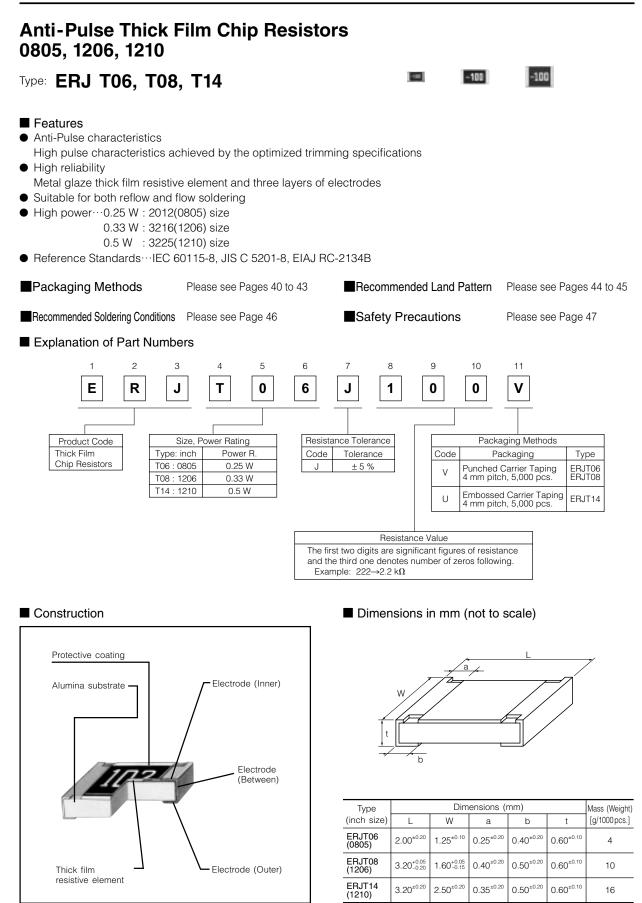






Anti-Surge Thick Film Chip Resistors(ERJP Type) Thick Film Chip Resistors(ERJ Type)





Ratings

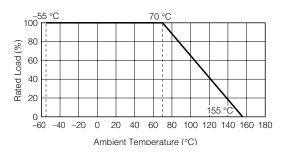
Type (inch size)	Power Rating at 70 °C (W)	Limiting Element Voltage ⁽¹⁾ (V)	Maximum Overload Voltage ⁽²⁾ (V)	Resistance Tolerance (%)	Resistance Range (Ω)	T.C.R. (×10 ⁻⁶ /°C)	Category Temperature Range (°C)
ERJT06 (0805)	0.25	150	200	±5	1 to 1 M (E24)	Less than 10 Ω : -100 to +600 Less than 33 Ω : ±300 More than 33 Ω : ±200	-55 to +155
ERJT08 (1206)	0.33	200	400	±5	1 to 1 M (E24)	Less than 10 Ω : -100 to +600 More than 10 Ω : ±200	
ERJT14 (1210)	0.5	200	400	±5	1 to 1 M (E24)	Less than 10 Ω : -100 to +600 More than 10 Ω : ±200	

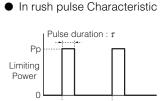
(1) Rated Continuous Working Voltage (RCWV) shall be determined from RCWV=√Power Rating × Resistance Values, or Limiting Element Voltage listed above, whichever less.

(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV=2.5 × Power Rating 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 on the right.





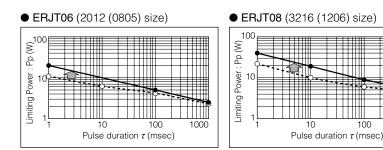
Limiting Power Curve

Period time : 10 s

Test cycle : 1000 cycles Spec : Resistance value = within ±5%

Anti-Pulse Thick Film Chip Resistors (ERJT Type)
Thick Film Chip Resistors (ERJ Type)

1000



• ERJT14 (3225 (1210) size)

