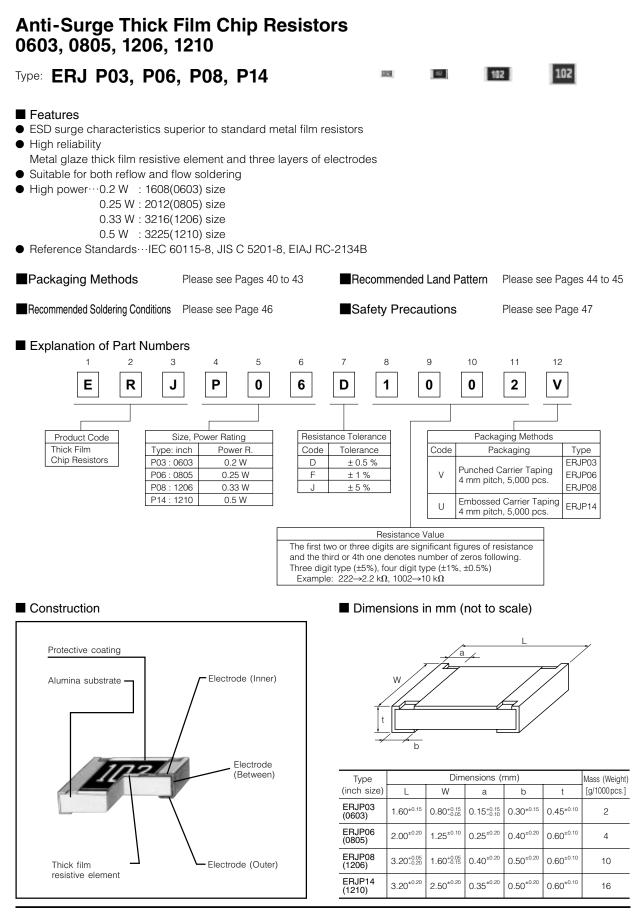
# Panasonic



## Ratings

Type (inch size)	Power Rating at 70 °C (W)	Limiting Element Voltage <sup>(1)</sup> (V)	Maximum Overload Voltage <sup>(2)</sup> (V)	Resistance Tolerance (%)	Resistance Range (Ω)	T.C.R. (×10 <sup>-6</sup> /°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)	$\pm 200$ Less than 10 $\Omega$ : -150 to +400	
ERJP06 (0805)	0.25	150 (400) <sup>(3)</sup>	200 (600) <sup>(3)</sup>	±0.5, ±1	10 to 1 M (E24, E96)	Less than 33 $\Omega$ : ±300 More than 33 $\Omega$ : ±100	–55 to +155
				±5	1 to 3.3 M (E24)	Less than 33 $\Omega$ : ±300 More than 33 $\Omega$ : ±200	
ERJP08 (1206)	0.33	200 (500) <sup>(3)</sup>	400 (1000) <sup>(3)</sup>	±0.5, ±1	10 to 1 M (E24, E96)	±100	–55 to +155
				±5	1 to 10 M (E24)	Less than 10 $\Omega$ : -100 to +600 More than 10 $\Omega$ : ±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 $\Omega$ : -100 to +600 More than 10 $\Omega$ : ±200	

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

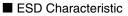
(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV=2.5 × Power Rating or max. Overload Voltage listed above whichever less.

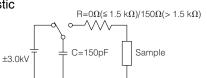
(3) Please contact us when resistors with guaranteed high voltage are need.

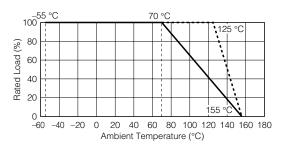
#### Power Derating Curve

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

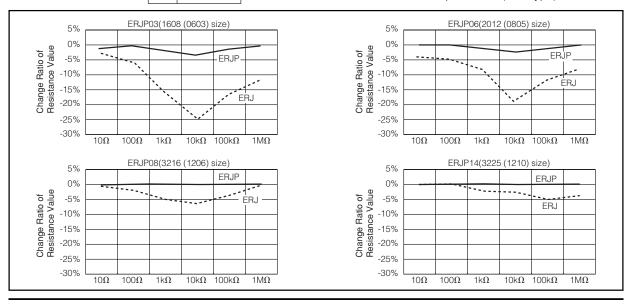
★ When the temperature of ERJP06/08/14 is 155 °C or less, the derating start temperature can be changed to 125 °C. (See the dotted line)

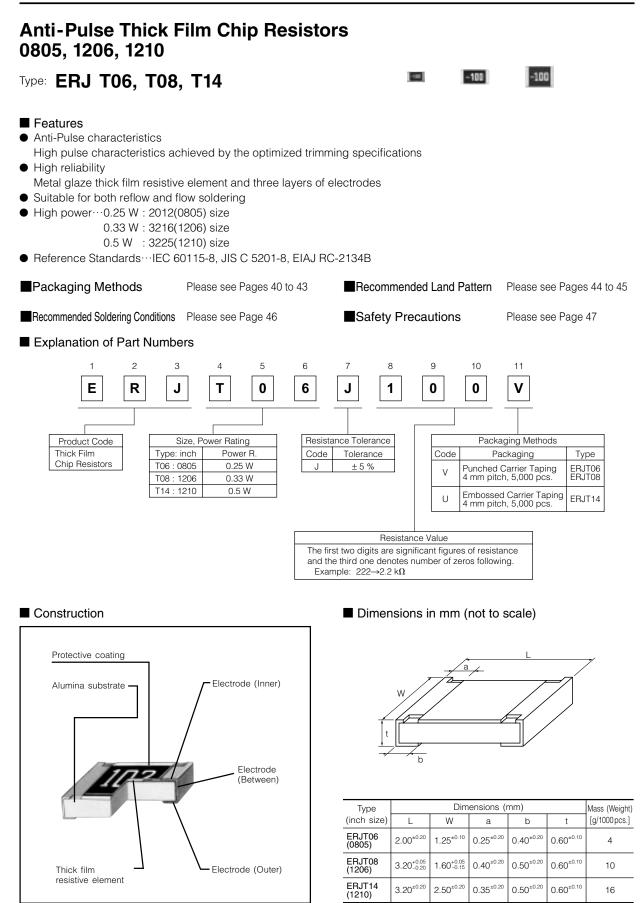






## Anti-Surge Thick Film Chip Resistors(ERJP Type) Thick Film Chip Resistors(ERJ Type)





## Ratings

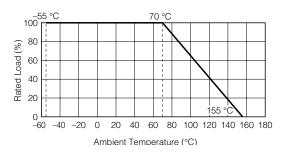
Type (inch size)	Power Rating at 70 °C (W)	Limiting Element Voltage <sup>(1)</sup> (V)	Maximum Overload Voltage <sup>(2)</sup> (V)	Resistance Tolerance (%)	Resistance Range (Ω)	T.C.R. (×10 <sup>-6</sup> /°C)	Category Temperature Range (°C)
ERJT06 (0805)	0.25	150	200	±5	1 to 1 M (E24)	Less than 10 $\Omega$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

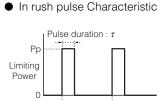
(1) Rated Continuous Working Voltage (RCWV) shall be determined from RCWV=√Power Rating × Resistance Values, or Limiting Element Voltage listed above, whichever less.

(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.





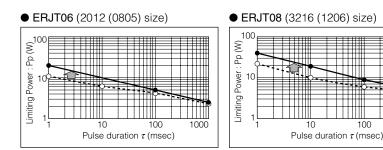
Limiting Power Curve

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)

