# Anti-Surge Thick Film Chip Resistors (Double-sided resistive elements structure) 0805

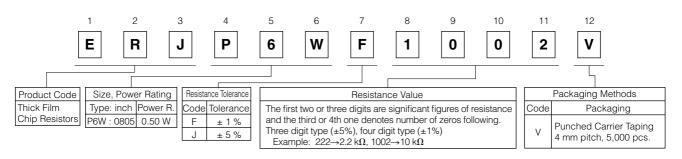
Type: ERJ P6W

This series is not a recommended product. Not recommended for new design.

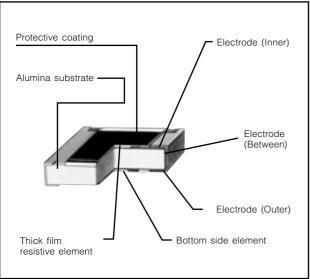
- Features
- ESD surge characteristics superior to standard metal fi Im resistors
- High reliability
- Metal glaze thick film resistive element and three layers of electrodes
- Suitable for both refl ow and fl ow soldering
- High power…0.50W:2012(0805)size(ERJP6W)
- High pulse characteristics...1.5 times higher than 0805 inch size Anti-Surge Thick Film Chip Resistors (ERJP06)
- Reference Standards…IEC 60115-8, JIS C 5201-8, EIAJ RC-2134B
- RoHS compliant

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

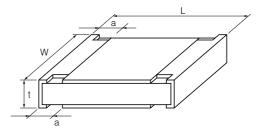
Explanation of Part Numbers







Dimensions in mm (not to scale)



Туре		Mass (Weight)			
(inch size)	L	W	а	t	[g/1000 pcs.]
ERJP6W (0805)	2.00 <sup>±0.20</sup>	1.25 <sup>±0.20</sup>	0.35 <sup>±0.20</sup>	0.65 <sup>±0.10</sup>	6

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## Ratings

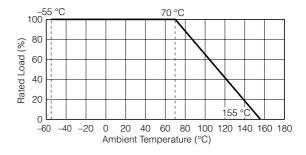
(iı	Type nch size)	Power Rating <sup>(3)</sup> at 70 °C (W)	Limiting Element Voltage <sup>(1)</sup> (V)	Maximum Overload Voltage <sup>(2)</sup> (V)	Resistance Tolerance (%)	Resistance Range (Ω)	T.C.R. (×10⁻ <sup>6</sup> /°C)	Category Temperature Range (°C)
ERJP6W (0805)	0.50	150	200	±1	10 to 1 M (E24, E96)	±200	55 to +155	
				±5		$\begin{array}{l} R < 10 \ \Omega \ : \ -100 \ to \ +600 \\ 10 \ \Omega \ \leq \ R \ : \ \pm200 \end{array}$		

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

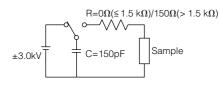
(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV=2.5 × Power Rating or max. Overload Voltage listed above whichever less.
(3) Use it on the condition that the case temperature is below 155 °C.

#### Power Derating Curve

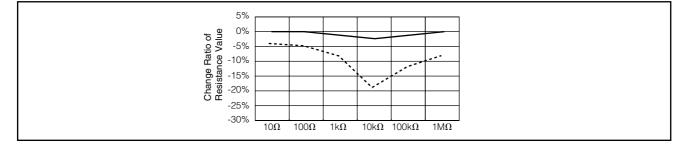
For resistors operated in ambient temperatures above 70 °C, power rating shall be derated in accordance with the figure on the right.



### ESD Characteristic

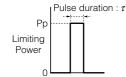


Anti-Surge Thick Film Chip Resistors(ERJP6W Type) Thick Film Chip Resistors(ERJ6G Type)



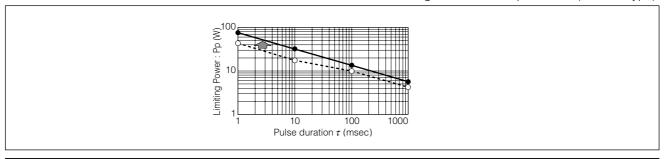
## Limiting Power Curve

• In rush pulse Characteristic



Test cycle : 1 cycles Spec : Resistance value = within ±1%

> Anti-Surge Thick Film Chip Resistors(ERJP6W Type) Anti-Surge Thick Film Chip Resistors(ERJP06 Type)



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