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

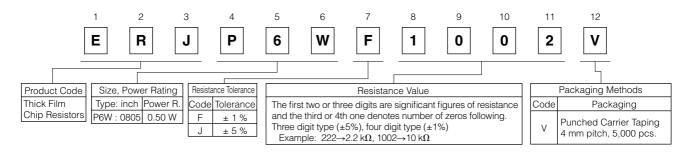
Type: ERJ P6W

This series is not a recommended product.

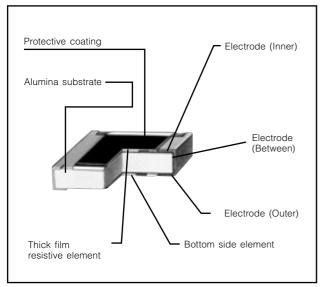
Not recommended for new design.

- Features
- ESD surge characteristics superior to standard metal fi Im resistors
- High reliability
 - Metal glaze thick fi Im 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

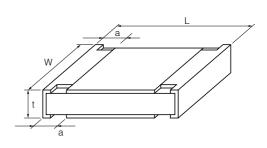
■ Explanation of Part Numbers



■ Construction



■ Dimensions in mm (not to scale)



Type (inch size)		Mass (Weight)			
	L	W	а	t	[g/1000 pcs.]
ERJP6W (0805)	2.00 ^{±0.20}	1.25 ^{±0.20}	0.35 ^{±0.20}	0.65 ^{±0.10}	6

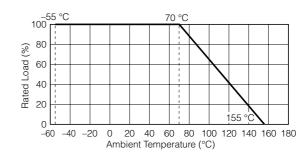
■ Ratings

Type (inch size)	Power Rating ⁽³⁾ 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)	
ERJP6W (0805)	0.50	150	200	±1	10 to 1 M (E24, E96)	±200	-55 to +155	
				±5		$R < 10 \Omega : -100 \text{ to } +600$ $10 \Omega \le R : \pm 200$	-55 (0 +155	

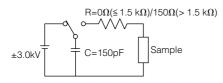
⁽¹⁾ Rated Continuous Working Voltage (RCWV) shall be determined from RCWV=√Power Rating × Resistance Values, or Limiting Element Voltage listed above, whichever less.

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.

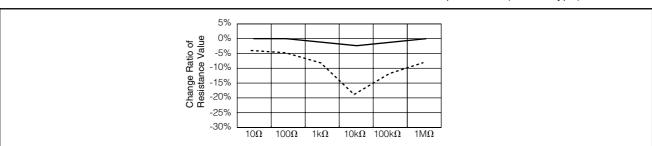


■ ESD Characteristic



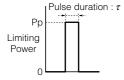
Anti-Surge Thick Film Chip Resistors(ERJP6W Type)

------ Thick Film Chip Resistors(ERJ6G Type)



■ Limiting Power Curve

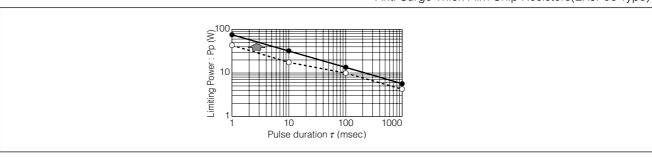
• In rush pulse Characteristic



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)



Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

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

⁽³⁾ Use it on the condition that the case temperature is below 155 $^{\circ}\text{C}.$



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