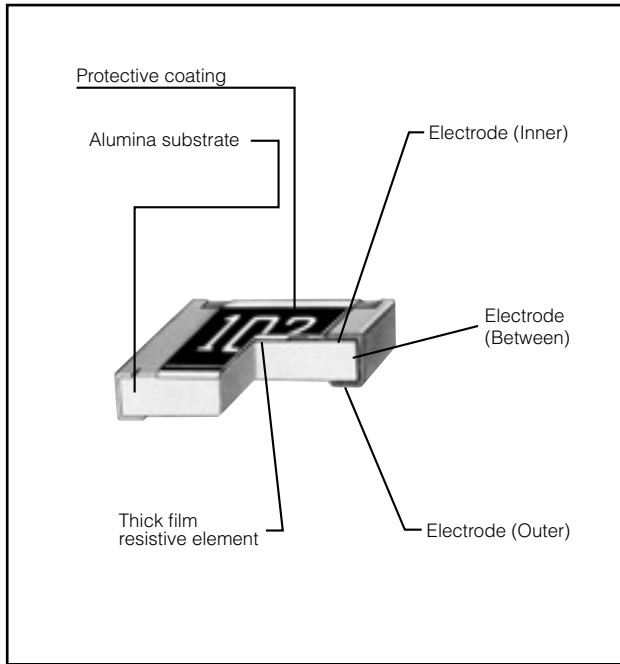
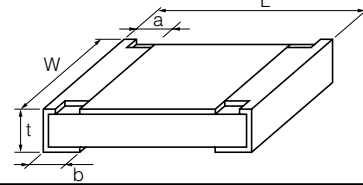


Construction



Dimensions in mm (not to scale)



Type (inch size)	Dimensions (mm)					Mass (Weight) (g/1000 pcs.)
	L	W	a	b	t	
ERJXG (01005)	0.40 ^{±0.02}	0.20 ^{±0.02}	0.10 ^{±0.03}	0.10 ^{±0.03}	0.13 ^{±0.02}	0.04
ERJ1G (0201)	0.60 ^{±0.03}	0.30 ^{±0.03}	0.10 ^{±0.05}	0.15 ^{±0.05}	0.23 ^{±0.03}	0.15
ERJ2G (0402)	1.00 ^{±0.05}	0.50 ^{±0.05}	0.20 ^{±0.10}	0.25 ^{±0.05}	0.35 ^{±0.05}	0.8
ERJ3G (0603)	1.60 ^{±0.15}	0.80 ^{+0.15 -0.05}	0.30 ^{±0.20}	0.30 ^{±0.15}	0.45 ^{±0.10}	2
ERJ6G (0805)	2.00 ^{±0.20}	1.25 ^{±0.10}	0.40 ^{±0.20}	0.40 ^{±0.20}	0.60 ^{±0.10}	4
ERJ8G (1206)	3.20 ^{+0.05 -0.20}	1.60 ^{+0.05 -0.15}	0.50 ^{±0.20}	0.50 ^{±0.20}	0.60 ^{±0.10}	10
ERJ14 (1210)	3.20 ^{±0.20}	2.50 ^{±0.20}	0.50 ^{±0.20}	0.50 ^{±0.20}	0.60 ^{±0.10}	16
ERJ12 (1812)	4.50 ^{±0.20}	3.20 ^{±0.20}	0.50 ^{±0.20}	0.50 ^{±0.20}	0.60 ^{±0.10}	27
ERJ12Z (2010)	5.00 ^{±0.20}	2.50 ^{±0.20}	0.60 ^{±0.20}	0.60 ^{±0.20}	0.60 ^{±0.10}	27
ERJ1T (2512)	6.40 ^{±0.20}	3.20 ^{±0.20}	0.65 ^{±0.20}	0.60 ^{±0.20}	0.60 ^{±0.10}	45

Ratings

<For Resistor>

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)	
ERJXG (01005)	0.031	15	30	±5	4.7 to 1 M (E24)	<10 Ω: -100 to +600 10 Ω to 100 Ω: ±300 100 Ω<: ±200	-55 to +125	
ERJ1G (0201)	0.05	25	50	±5	1 to 10 M (E24)	<10 Ω: -100 to +600	-55 to +125	
ERJ2G (0402)	0.1	50	100	±5	1 to 10 M (E24)		-55 to +155	
ERJ3G (0603)	0.1	75	150	±5	1 to 10 M (E24)		-55 to +155	
ERJ6G (0805)	0.125	150	200	±5	1 to 10 M (E24)		-55 to +155	
ERJ8G (1206)	0.25	200	400	±5	1 to 10 M (E24)		10 Ω to 1 MΩ: ±200	-55 to +155
ERJ14 (1210)	0.5	200	400	±5	1 to 10 M (E24)		-55 to +155	
ERJ12 (1812)	0.75	200	500	±5	1 to 10 M (E24)	1 MΩ<: -400 to +150	-55 to +155	
ERJ12Z (2010)	0.75	200	500	±5	1 to 10 M (E24)		-55 to +155	
ERJ1T (2512)	1	200	500	±5	1 to 1 M (E24)		-55 to +155	

(1) Rated Continuous Working Voltage (RCWV) shall be determined from $RCWV = \sqrt{\text{Power Rating} \times \text{Resistance Values}}$, or Limiting Element Voltage listed above, whichever less.

(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from $SOTV = 2.5$ (Only ERJ2G=2.0) × Power Rating or max. Overload Voltage listed above whichever less.

<For Jumper>

Type (inch size)	Rated Current (A)	Maximum Overload Current (A)
ERJXG (01005)	0.5	1
ERJ1G (0201)		
ERJ2G (0402)		
ERJ3G (0603)		
ERJ6G (0805)		
ERJ8G (1206)	2	4
ERJ14 (1210)		
ERJ12 (1812)		
ERJ12Z (2010)		
ERJ1T (2512)		

Power Derating Curve

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

