

## High Precision Thick Film Chip Resistors



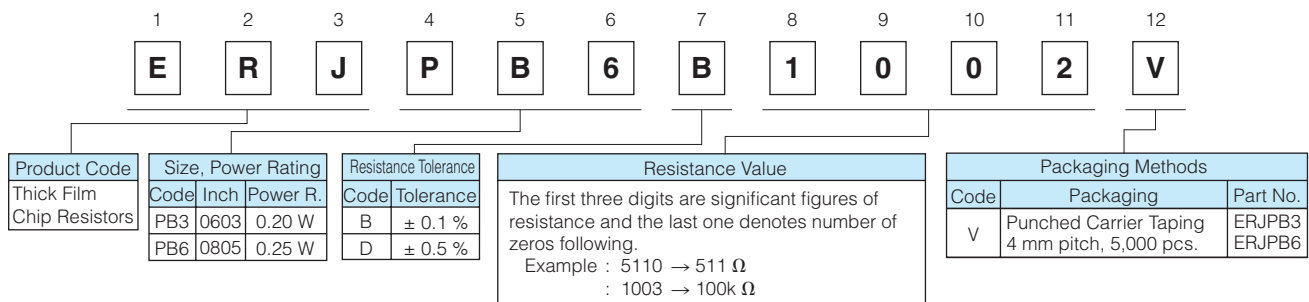
Type: **ERJ PB3, PB6**

### Features

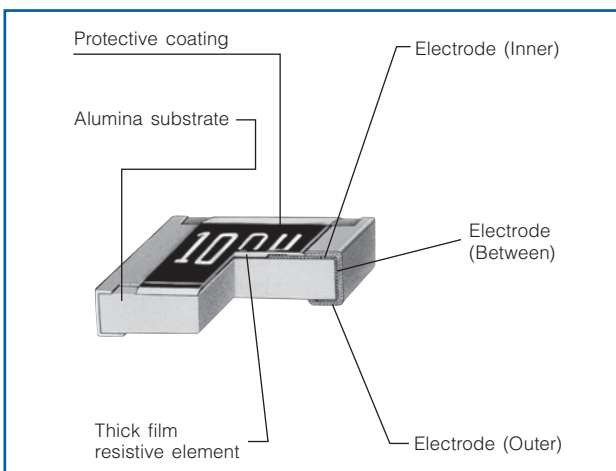
- Achieve the resistance tolerance  $\pm 0.1\%$  with high reliability metal glaze thick film resistor
- Guarantee the temperature coefficient of Resistance  $\pm 50 \times 10^{-6}/^{\circ}\text{C}$  in high resistance range up to  $1\text{M}\ \Omega$
- Suitable for both reflow and flow soldering
- High power ... 0.20 W : 0603 inch / 1608 mm size (ERJPB3)  
0.25 W : 0805 inch / 2012 mm size (ERJPB6)
- Reference Standards... IEC 60115-8, JIS C 5201-8, EIAJ RC-2134B
- AEC-Q200 qualified
- RoHS compliant

■ **As for Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions,**  
Please see Data Files

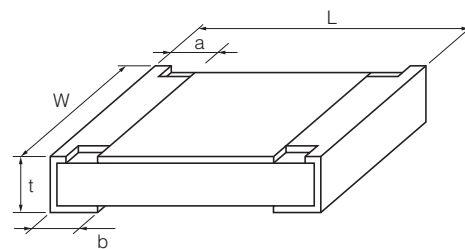
### Explanation of Part Numbers



### Construction



### Dimensions in mm (not to scale)



Part No. (inch size)	Dimensions (mm)					Mass (Weight) [g/1000 pcs.]
	L	W	a	b	t	
ERJPB3 (0603)	1.60 $\pm 0.15$	0.80 $\pm 0.15$ $\pm 0.05$	0.15 $\pm 0.15$ $\pm 0.10$	0.25 $\pm 0.10$	0.45 $\pm 0.10$	2
ERJPB6 (0805)	2.00 $\pm 0.20$	1.25 $\pm 0.10$	0.25 $\pm 0.20$	0.40 $\pm 0.20$	0.60 $\pm 0.10$	4

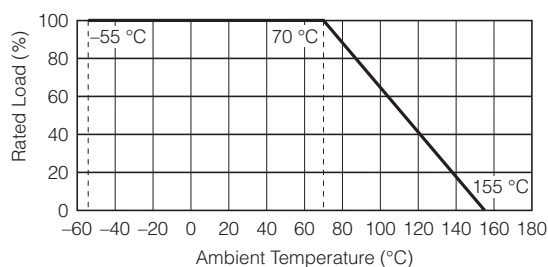
## Ratings

Part No. (inch 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)
ERJPB3 (0603)	0.20	150	200	±0.1 ±0.5	200 to 100k (E24, E96)	±50	-55 to +155
ERJPB6 (0805)	0.25	150	200	±0.1 ±0.5	200 to 1M (E24, E96)	±50	-55 to +155

- (1) Rated Continuous Working Voltage (RCWW) shall be determined from  $RCWW = \sqrt{\text{Power Rating} \times \text{Resistance Values}}$ , or Limiting Element Voltage listed above, whichever less.  
 (2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from  $SOTV = 2.5 \times RCWW$  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.



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Panasonic:

[ERJ-PB3D2400V](#) [ERJ-PB3D2430V](#) [ERJ-PB3D2370V](#) [ERJ-PB6B1303V](#) [ERJ-PB6B1373V](#) [ERJ-PB6B1963V](#) [ERJ-PB6B4323V](#) [ERJ-PB6B8253V](#) [ERJ-PB6B2203V](#) [ERJ-PB6B3093V](#) [ERJ-PB6B6653V](#) [ERJ-PB6B7153V](#) [ERJ-PB6B7683V](#) [ERJ-PB6B8063V](#) [ERJ-PB6B5113V](#) [ERJ-PB6B5903V](#) [ERJ-PB6B3242V](#) [ERJ-PB6B3652V](#) [ERJ-PB6B6192V](#) [ERJ-PB6B7502V](#) [ERJ-PB6B6983V](#) [ERJ-PB6B1183V](#) [ERJ-PB6B1783V](#) [ERJ-PB6B1873V](#) [ERJ-PB6B2553V](#) [ERJ-PB6B2743V](#) [ERJ-PB6B3602V](#) [ERJ-PB6B6042V](#) [ERJ-PB6B8202V](#) [ERJ-PB6B1743V](#) [ERJ-PB6B3743V](#) [ERJ-PB6B4423V](#) [ERJ-PB6B5103V](#) [ERJ-PB6B6203V](#) [ERJ-PB6B6803V](#) [ERJ-PB6B1742V](#) [ERJ-PB6B1912V](#) [ERJ-PB6B2152V](#) [ERJ-PB6B8872V](#) [ERJ-PB6B9532V](#) [ERJ-PB6B1243V](#) [ERJ-PB6B2003V](#) [ERJ-PB6B2053V](#) [ERJ-PB6B3603V](#) [ERJ-PB6B1212V](#) [ERJ-PB6B3482V](#) [ERJ-PB6B5362V](#) [ERJ-PB6B2742V](#) [ERJ-PB6B6812V](#) [ERJ-PB6B7682V](#) [ERJ-PB6B1911V](#) [ERJ-PB6B6201V](#) [ERJ-PB6B1402V](#) [ERJ-PB6B1502V](#) [ERJ-PB6B1692V](#) [ERJ-PB6B2702V](#) [ERJ-PB6B6040V](#) [ERJ-PB6B8870V](#) [ERJ-PB6B1241V](#) [ERJ-PB6B1581V](#) [ERJ-PB6B4301V](#) [ERJ-PB6B1871V](#) [ERJ-PB6B3161V](#) [ERJ-PB6B3571V](#) [ERJ-PB6B7871V](#) [ERJ-PB6B8201V](#) [ERJ-PB6B9531V](#) [ERJ-PB6B1822V](#) [ERJ-PB6B6193V](#) [ERJ-PB6B8061V](#) [ERJ-PB6B1131V](#) [ERJ-PB6B1211V](#) [ERJ-PB6B1271V](#) [ERJ-PB6B1821V](#) [ERJ-PB6B3001V](#) [ERJ-PB6B6811V](#) [ERJ-PB6B2703V](#) [ERJ-PB6B3243V](#) [ERJ-PB6B4223V](#) [ERJ-PB6B4993V](#) [ERJ-PB6B4751V](#) [ERJ-PB6B6041V](#) [ERJ-PB6B5900V](#) [ERJ-PB6B1301V](#) [ERJ-PB6B1601V](#) [ERJ-PB6B2701V](#) [ERJ-PB6B3302V](#) [ERJ-PB6B3322V](#) [ERJ-PB6B4702V](#) [ERJ-PB6B6492V](#) [ERJ-PB6B1653V](#) [ERJ-PB6B4641V](#) [ERJ-PB6B2151V](#) [ERJ-PB6B3091V](#) [ERJ-PB6B1403V](#) [ERJ-PB6B3903V](#) [ERJ-PB6B4873V](#) [ERJ-PB6B7873V](#) [ERJ-PB6B3000V](#) [ERJ-PB6B4530V](#)