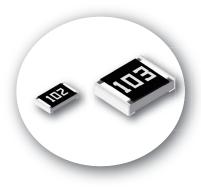


2024.10

Anti-Surge Chip Resistors

Contributing to industry, infrastructure, and in-vehicle equipment by miniaturizing and increasing power consumption



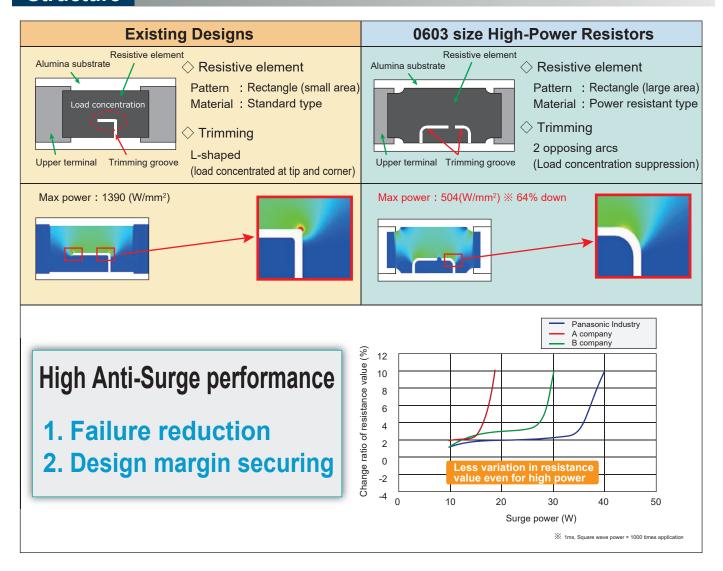
Product summary

 Proprietary materials and centralized load control achieve high power and high withstand voltage (pulse resistance)

Features

- Small, high-power (size reduction is possible at least the same as the rated power)
- Excellent anti-surge and anti-pulse performance

Structure



Isuue: Panasonic Industry Co., Ltd. Device Solutions Business Division 1006 Kadoma, Kadoma City, Osaka, 571-8506 Japan

^{*} Unauthorized duplication of this catalog is strictly forbidden. The contents of catalog are as of October 2024.

Contribution points

[Contributes to "PCB miniaturization" by replacing standard products with small & high-power products of the same or higher power rating.]



Size Power (inch)	0402	0603	0805	1206	1210				
0.5			ERJP06	65% down					
0.25		ERJPA3	69% down						
0.2	ERJPA2 ■								
0.125		78% down							
means down sizing rate (%) of PCB. Panasonic Industry Standard									

Specifications

Part No. (inch)	Power rating* ¹ (W)	Rated ambient temp.*2(°C)	Rated terminal part temp.'²(°C)		Maximum overload voltage*4(V)	Resistance tolerance (%)	Resistance range (Ω)	T.C.R. (×10°/K)	Category temp. range (°C)
ERJPA2 (0402)	0.20	70	-	- 50	100	±0.5 ±1	10 to 1M (E24, E96)	±0.5, ±1 : ±100 ±5 : ±200 R<10Ω : -100~+600	–55 to +155
						±5	1 to 1M (E24)		
	0.25	_	100			±0.5 ±1	10 to 1M (E24, E96)		
						±5	1 to 1M (E24)		
	0.25	105	-	150	200	±0.5 ±1	10 to 1M (E24, E96)	±0.5, ±1: ±100 ±5: ±200	
ERJPA3 (0603)						±5	1 to 1.5M (E24)		
	0.33	_	130			±0.5 ±1	10 to 1M (E24, E96)		
						±5	1 to 1.5M (E24)		
ERJP06 (0805)	0.50	70	115	400	600	±0.5 ±1	10 to 1M (E24, E96)	R<33Ω : ±300 33Ω≤R : ±100	
						±5	1 to 3.3M (E24)	R<10Ω: −100 to +600 10Ω≤R<33Ω: ±300 33Ω≤R: ±200	
ERJP08 (1206)	0.66	70	125	500	1000	±0.5 ±1	10 to 1M (E24, E96)	±100	
						±5	1 to 10M (E24)	R<10Ω : −100 to +600 10Ω≤R : ±200	



^{*1:} Use it on the condition that the case temperature is below the upper category temperature.
*2: If there is a doubt whether the rated ambient temperature or the rated terminal part temperature is used, give priority to the rated terminal

part temperature.
*3: Rated Continuous Working Voltage (RCWV) shall be determined from RCWV=\(\bar{P}\)ower Rating \(\times\) Resistance Value, or Limiting Element

Voltage listed above, whichever less.

*4: Overload Test Voltage (OTV) shall be determined from OTV=Specified Magnification (refer to performance) × RCWVor Maximum Overload Voltage listed above, whichever less.