

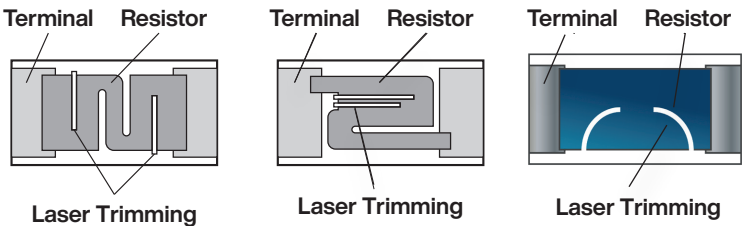
Downsizing Resistor Solutions

Cost- and Space-Saving

High Power Series (ERJP)

- High power in a small package
(e.g. 0.25W in 0603)
- Excellent surge and pulse resistance

Examples of Anti-Surge Structure Types



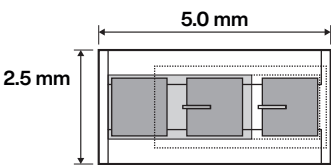
Series	Size (inch)	Power Rating		Tolerance (%)	Resistance Range (Ω)			TCR (ppm/K)	Category Temperature (°C)
		Ambient Temperature	Terminal Temperature						
ERJPA2	0402	0.20W (70°C)	0.25W (100°C)	±0.5 / ±1/ ±5	10 - 1M			±100 *depends on resistance value and tolerance	-55 to +155
ERJPA3	0603	0.25W (105°C)	0.33W (130°C)		5%: 1 - 1.5M	1%: 10 - 1M	0.5%: 10 - 1M		
ERJP06	0805	0.5W (70°C)	0.5W (115°C)		5%: 1 - 3.3M	1%: 10 - 1M	0.5%: 10 - 1M		
ERJP08	1206	0.66W (70°C)	0.66W (125°C)		5%: 1 - 10M	1%: 10 - 1M	0.5%: 10 - 1M		
ERJPM8				±1	1.02M - 10M			±100	

Wide Terminal Resistor (ERJB, ERJD)

- High solder-joint reliability & high heat dissipation
- Resistance value available from 10mΩ
- Low TCR (100ppm/K) *ERJD series

Example of Wide Terminal Structure Type

ERJB1,D1 (Size 1020)



Series	Size (inch)	Rated Power (W)	Resistance Range (Ω)	TCR* (ppm/K)	Tolerance (%)	Category Temperature (°C)
ERJB1	1020	2 (R≤10Ω)	10m-10	±100, ±200, 0 to ±350	±1, ±5	-55°C to +155
		1 (R>10Ω)	11-10k			
ERJB2	0612	1.5	10m-1k	±100, ±200, 0 to ±300		
		1	10m-10			
		0.75	11-1M			
ERJB3	0508	1	20m-10			
		0.5 (R≤1Ω)	20m-1			
		0.33 (R>1Ω)	1.1-10			
ERJD1	1020	2.0	10m-200m	±100		
ERJD2	0612	1.0				

*TCR: It depends on resistance value and tolerance, so please check our datasheet before using.

Downsizing Resistor Solutions

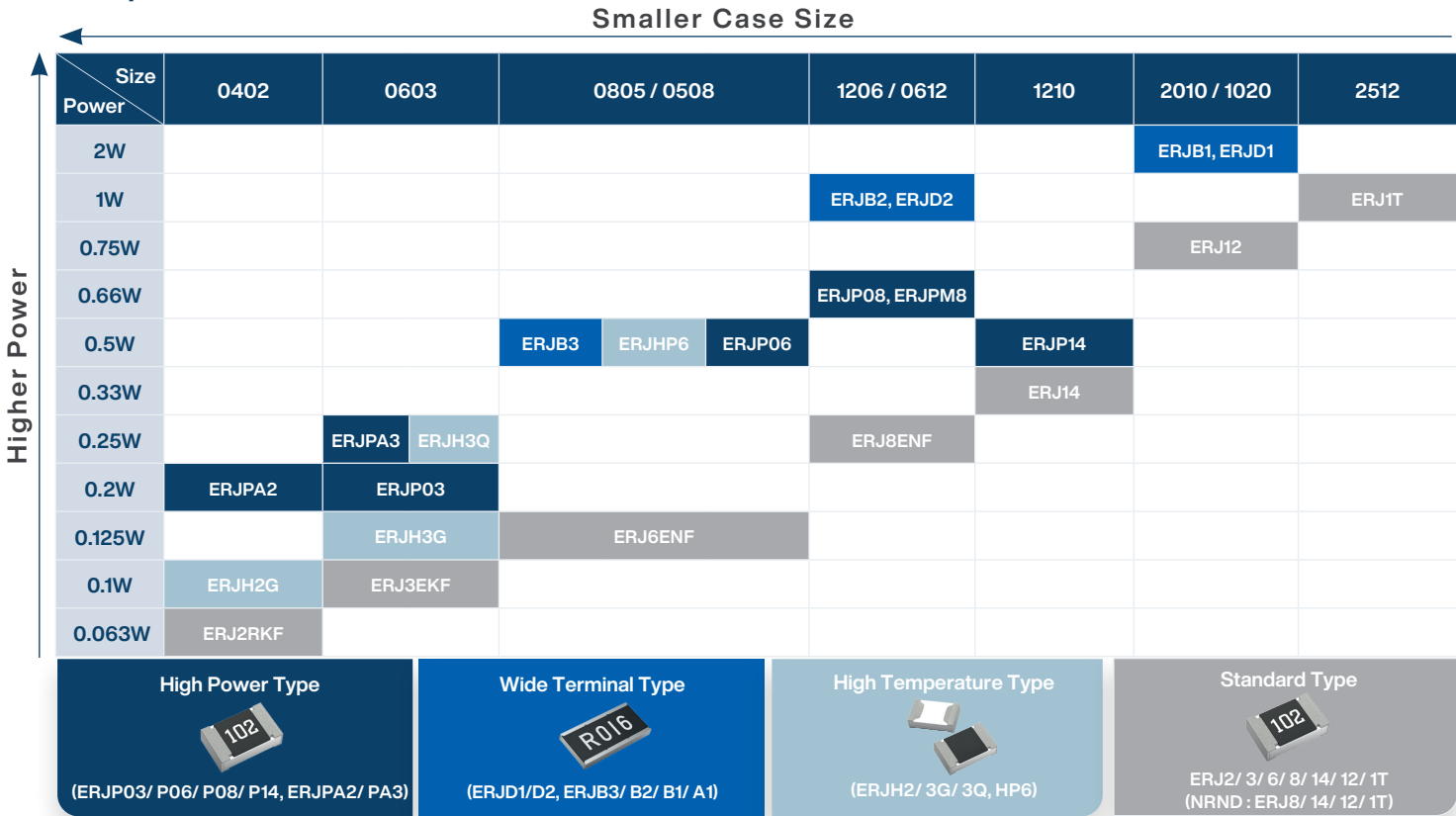
Cost- and Component-Saving

High Temperature Series (ERJH)

- Temperature range: -55°C to +175°C (general: -55°C to +155°C)
- 100% rated load: max. 105°C (general: 70°C)
- Contribute to high power, margin-up which enhance design flexibility

Type	Size (inch)	Series	Power (W)	Tolerance (%)	R/V Range (Ω)	Category Temperature (°C)	
Standard	0402	ERJH2G	-	-	Jumper	-55 to +175	
			0.10	±5	1-300k		
	0603	ERJH3G	-	-	Jumper		
			0.125	±5	1-300k		
	0805	ERJH6G	-	-	Jumper		
Precision	0402	ERJH2C	0.10	±1	1-9.76		
		ERJH2R	0.10	±0.5, ±1	10-300k		
	0603	ERJH3E	0.125	±0.5, ±1	10-300k		
Low Resistance	0603	ERJH3Q	0.25	±0.5, ±1, ±5	1-9.1		
High Power	0805	ERJHP6	0.50	±0.5	10-300k		
				±1, ±5	1-300k		

Lineup Overview



 AEC-Q200 compliant