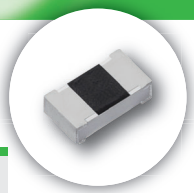
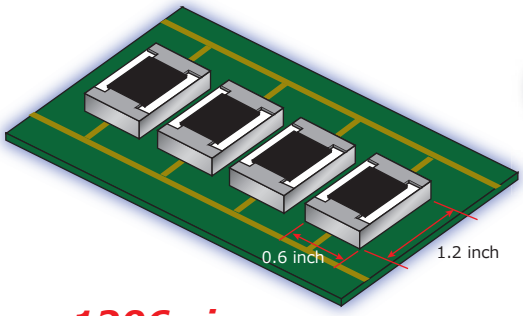
Current sensing
Double-sided resistive elements structure type

High power | Down sizing | Anti solder joint crack | AEC-Q200

ERJ*BW series

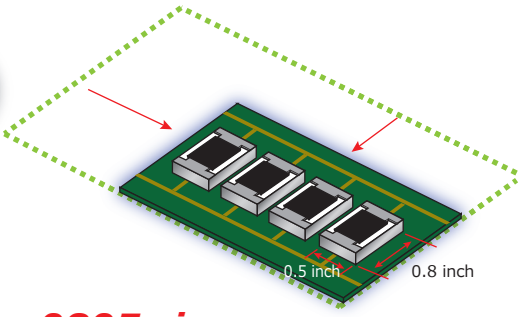


Small case size, low resistance, and high power by double-sided resistive elements structure



1206 size

PCB down sizing 45%



0805 size

[Achieved smaller case size(1206→0805) than conventional type for 10 mΩ]

PCB area reduction

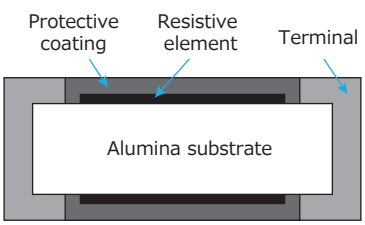
1. Down sizing　2. Weight saving　3. Cost saving

Point

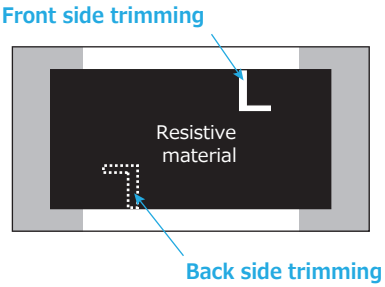
Realized small current sensing resistors by double-sided resistive elements structure

Double-sided resistive elements structure

[Side view]



[Top view]



- By original double sided resistive trimming "The front and back symmetrical double L-shaped trimming" process, load concentration can be avoided.
- Achieved small size & high power and overload characteristics.

■ Specifications

Part No.	Size (inch)	Power rating (W)	Resistance tolerance (%)	Resistance range (Ω)	TCR (x10^{-6}/ ℃)	Category temp. range (℃)
ERJ2BW	0402	0.25	± 1, ± 2, ± 5	47 m to 100 m	0 to +300	-55 to 155
ERJ3BW	0603	0.33	± 1, ± 2, ± 5	20 m to 200 m	20mΩ≦R<39mΩ : 0 to +250 39mΩ≦R≦100mΩ : 0 to +150	
ERJ6BW	0805	0.5	± 1, ± 2, ± 5	10 m to 100 m	10mΩ≦R<15mΩ : 0 to +300 15mΩ≦R≦100mΩ : 0 to +200	
ERJ8BW	1206	1.0	± 1, ± 2, ± 5	10 m to 100 m	10mΩ≦R<20mΩ : 0 to +200 20mΩ≦R<47mΩ : 0 to +150 47mΩ≦R≦100mΩ : 0 to +100	

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