

# Current sensing

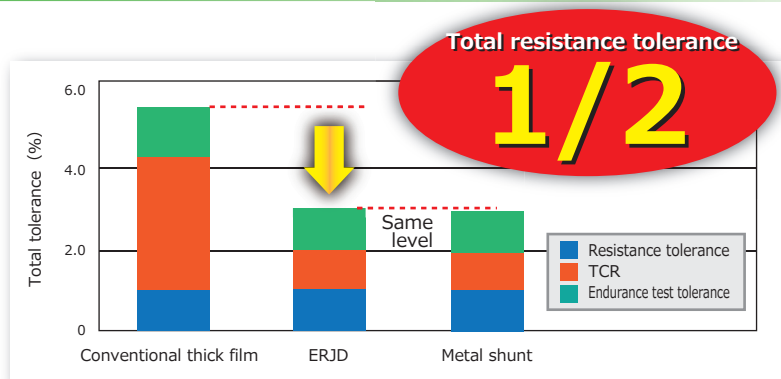
## Low TCR high power / wide terminal type

- Low TCR
- Down sizing
- High power
- Anti solder joint crack
- AEC-Q200

### ERJD series



**Achieved low-resistance/low-TCR**  
 ~ VA proposal for metal shunt resistors ~



[ Achieved TCR 350 ppm/°C → 100 ppm/°C in 10 mΩ ]

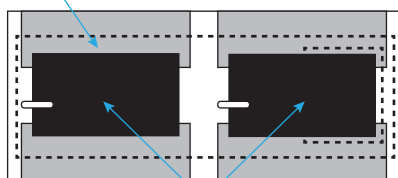
**Achieved same level performance as metal shunt resistor**

1. Design margin securing
2. Improvement of reliability
3. Cost saving

**Point**

**Achieved low resistance TCR by unique resistive material**

Reducing resistance value on the electrode



CuNi resistive material

1020 size : 10 mΩ to 20 mΩ  
 0612 size : 10 mΩ to 30 mΩ

Resistive optimization material

- Reducing low resistance TCR by applying Pd-Ag resistive element on the high resistance value, CuNi resistive material on the low.
- Achieved low TCR as same level as metal shunt resistors at more than 10Ω.

■ Specifications

Part No.	Size (inch)	Power rating (W)	Resistance tolerance (%)	Resistance range (Ω)	TCR (x10 <sup>-6</sup> / °C)	Category temp. range (°C)
ERJD1	1020	2.0	± 1, ± 5	10 m to 200 m	± 100	-55 to 155
ERJD2	0612	1.0	± 1, ± 5	10 m to 200 m	± 100	

Please visit our website for details !

