Panasonic

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Using breakthrough technology, we aim for products that will create new markets.

New Product News

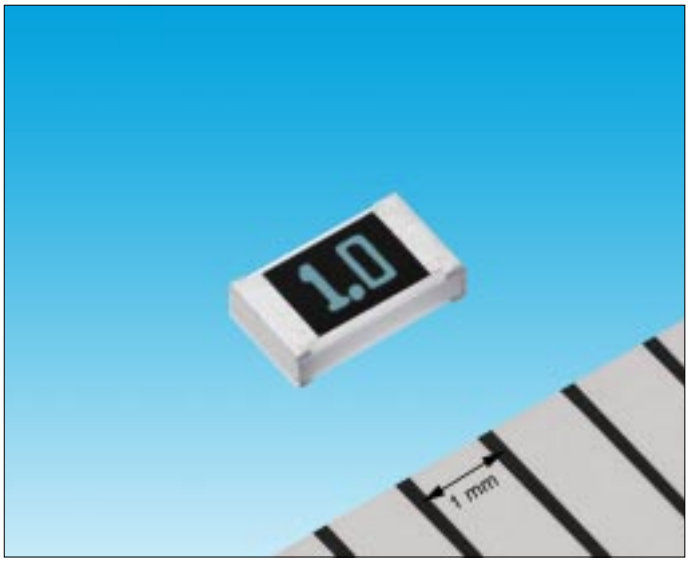
Expanding the product line-up of low resistance type chip resistor

# Thick Film Chip Resistor

## 0805 Anti-Sulfurated Thick Film Chip Resistor (Low Resistance Type)

**Industry/Field:** Mobile communications, Car electronics, Industrial equipment

# High performance and anti-corrosion in a sulfurated atmosphere



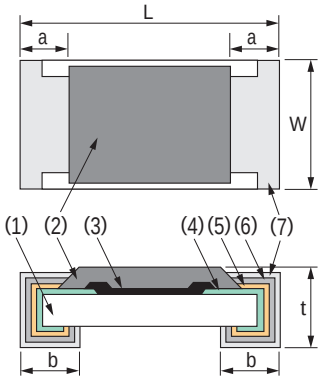

### • Development Target:

Anti-sulfurated resistors are favorable for devices used outside such as cell stations or machine tools used with oil. However, low resistance type (100 mΩ to 1 Ω) had not been available so far.
This product is aiming to meet such demand mentioned above.

### • Features:

1. **High anti-corrosion resistor (100 mΩ to 1 Ω)**
2. **Good TCR : ±150 (×10$^{-6}$/°C)**
3. **High rated power : 0.25W (70 °C)**

### • Construction:




(1) Alumina substrate
(2) Resin protective coating
(3) Thick film resistive element
(4) Electrode(Inner)
(5) Electrode(Between) 1 : Cu plating
(6) Electrode(Between) 2 : Ni plating
(7) Electrode(Outer) : Sn plating

Dimensions (mm)

| Series | L | W | a | b | t |
|---|---|---|---|---|---|
| ERJS6 | 2.00 ±0.20 | 1.25 ±0.10 | 0.45 ±0.20 | 0.45 ±0.20 | 0.55 ±0.10 |

### • Characteristics/specifications:

| Series | ERJS6 Series |
|---|---|
| Resistance Range | 100 mΩ to 1 Ω (E24) |
| Resistance Tolerance | ±1%, ±2%, ±5% |
| Power Rating | 0.25W |
| TCR* | ±150×10$^{-6}$/°C |
| Category Temperature Range | -55 °C to +155 °C |

*TCR(Temperature Coefficient of Resistance)

### • Applications/usage examples:

- Machine tools
- Automotive applications

### • Explanation of part numbers:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|
| E | R | J | S | 6 | S | J | R | 2 | 0 | V |

- 1 2 3: Thick Film Chip Resistors
- 4 5: Type: 0805 inch size, Power Rating: 0.25W
- 6: Resistance Range/TCR — S: 100 mΩ to 200 mΩ/±150×10$^{-6}$/°C; Q: 220 mΩ to 1 Ω/±150×10$^{-6}$/°C
- 7: Resistance Tolerance — F: ±1%, G: ±2%, J: ±5%
- 8 9 10: Resistance Value (Example) — R20 → 0.20 Ω = 200 mΩ; 1R0 → 1.0 Ω = 1000 mΩ
- 11: Packaging Methods — Punched Carrier Taping 4 mm pitch, 5000 pcs.

**Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.**