Thick film rectangular MCR10 (2012 size: 1 / 8W)

Features

- 1) Power rating of 1 / 8W
- Highly reliable chip resistor
 Ruthenium oxide dielectric offers superior resistance to the elements.
- Electrodes not corroded by soldering
 Thick film makes the electrodes very strong.
- 4) Leading the world in development and mass production.
- Since start of production in 1982 (a world first), this component has established a solid reputation as a general-purpose chip resistor.
- 5) ROHM resistors have approved ISO-9001 certification.
 - Design and specifications are subject to change without notice. Carefully check the specification sheet before using or ordering it.

Ratings

| Item | Conditions | Specifications | |
|-----------------------|---|---|--|
| Rated power | Power must be derated according to the power derating curve in Figure 1 when ambient temperature exceeds 70°C. 100 | 0.125W (1/8W) [0.100W (1/10W)] * at 70°C | |
| Rated voltage | The voltage rating is calculated by the following equation. If the value obtained exceeds the maximum operating voltage, the voltage rating is equal to the maximum operating voltage. E: Rated voltage (V) E= $\sqrt{P \times R}$ P: Rated power (W) | Max. operating voltage 150V Max. overload voltage 200V Max. intermittent overload voltage 200V (300V) | |
| Nominal resistance | R: Nominal resistance (Ω) See <u>Table 1</u> . | (300V) | |
| Operating temperature | | −55°C to +155°C | |

^{*} At power rating of 0.1W, maximum overload voltage and maximum intermittent overload voltage are 300V.

Resistors MCR10

Jumper type

| Resistance | Max. 50mΩ | | |
|-----------------------|-----------------|--|--|
| Rated current | 2A | | |
| Peak current | 10A | | |
| Operating temperature | -55°C to +155°C | | |

Table 1

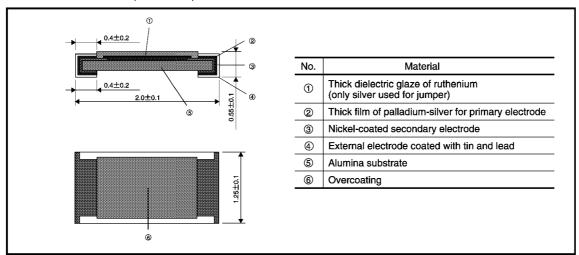
| Resistance tolerance | | Resistance range (Ω) | | Resistance temperature coefficient (ppm / °C) | |
|----------------------|-----|----------------------|----------|---|--|
| F (±1% | 5) | 10≦R≦2.2M | (E24,96) | ±100 | |
| J | JB* | 0.68 | (E6) | E00+250 | |
| (±5%) | J | 1.0≦R<2.2 | (E24) | 500±350 | |
| | | 2.2≦R<10 | (E24) | ±500 | |
| | | 10≦R<10M | (E24) | ±200 | |

Asterisk (*) indicates special specifications.

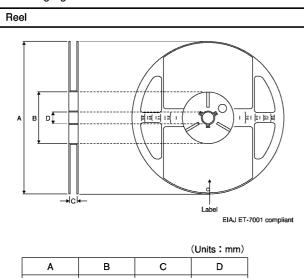
[●]Before using components in circuits where they will be exposed to transients such as pulse loads (short–duration, high–level loads), be certain to evaluate the component in the mounted state. In addition, the reliability and performance of this component cannot be guaranteed if it is used with a steady state voltage that is greater than its rated voltage.

Resistors MCR10

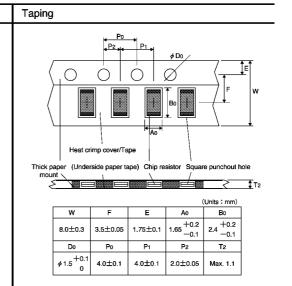
●External dimensions (Units: mm)

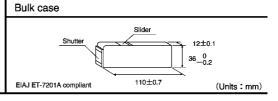


Packaging

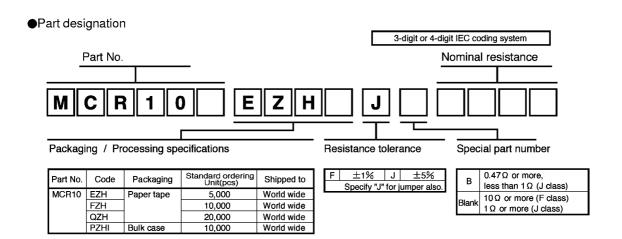


| | , | | |
|---------------------------|-------------------------|---------|----------|
| Α | В | С | D |
| ϕ 180 ${0 \atop -3}$ | φ 60 ⁺¹ 0 | 9±0.3 | φ 13±0.2 |
| ø 268±1.5 | ø 100±0.8 | 9.4±0.5 | φ 13±0.3 |
| ø330±2 | Min. <i>∲</i> 80 | 9.5±0.5 | φ 13±0.2 |





Resistors MCR10



Dimensions

