

Sulfur Tolerant Chip Resistors

TRR10 (2012size (0805inch))

Features

ROHM

- 1) Unique protect materials prevent from silver sulfide occurrence under sulfur environment.
- 2) Highly recommended for automotive, industrial and Power supply applications under sulfur environment.
- 3) Realize the good cost performance not like the Au terminal components from other suppliers.
- 4) ROHM resistors have approved ISO9001 / ISO/TS 16949 certification.

Design and specifications are subject to change without notice. Carefully check the specification sheet supplied with the product before using or ordering it.

Ratings

Item	Conditions	Specifications	
Rated power	Power must be derated according to the power derating curve in	0.125W (1 / 8W)	
Kaleu power	Figure 1 when ambient temperature exceeds 70°C.	at 70°C	
Rated voltage	The voltage rating is calculated by the following equation. If the value obtained exceeds the limiting element voltage, the voltage rating is equal to the maximum operating voltage. E: Rated voltage (V) P: Rated power (W)		
	$E = \sqrt{P \times R}$ E: Rated voltage (V) P: Rated power (V) R: Nominal resistance (Ω)	Limiting element voltage	150V
Nominal resistance	See Table 1.		
Operating temperature		-55°C to +155°C	

Jumper type		Table 1				
Resistance	Max. 50mΩ	Resistance tolerance	Resistance range (Ω)		Resistance temperature coefficient (ppm/°C)	
Rated current	2A					
Raled current		J (±5%)	1.0 to 9.1	(E24)	+400	
Operating temperature	-55°C to +155°C		1.0 10 3.1	(Ľ∠+)	1400	
			10 to 10M	(E24)	±200	
		F (±1%)	10 to 2.2M	(E24)	±100	

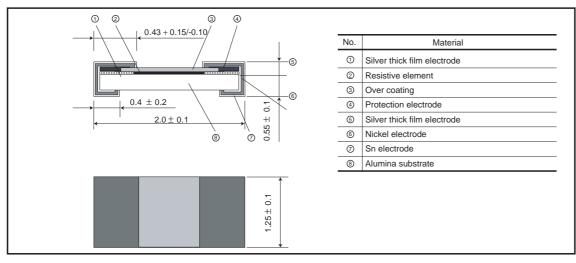
•Before using components in circuits where they will be exposed to transients such as pulse loads (short-duration, high- level loads), be certain to evaluate the component in the mounted state. In addition, the reliability and performance of this component cannot be guaranteed if it is used with a steady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

TRR10

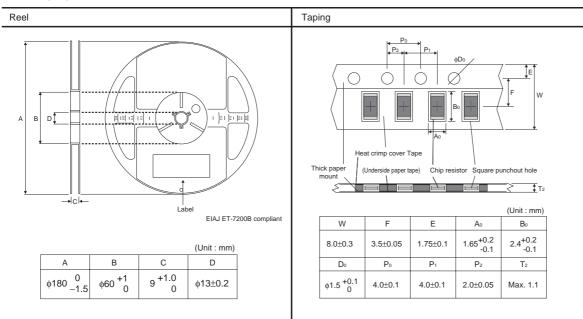
Characteristics

ltom	Guaran	teed value	Test conditions (US C 5201.1)	
Item	Resistor type	Jumper type	Test conditions (JIS C 5201-1)	
Resistance	J:±5% F:±1%	Max. 50mΩ	JIS C 5201-1 4.5	
Variation of resistance with temperature	See Table.1		JIS C 5201-1 4.8 Measurement : +25 / +125°C	
Overload	± (2.0%+0.1Ω)	Max. 50mΩ	JIS C 5201-1 4.13 Rated voltage (current) ×2.5, 2s. Maximum overload voltage : 200V	
Solderability	A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.		JIS C 5201-1 4.17 Rosin Ethanol (25%WT) Soldering condition : 235±5°C Duration of immersion : 2.0±0.5s.	
Resistance to soldering heat	\pm (1.0%+0.05Ω) Max. 50mΩ No remarkable abnormality on the appearance.		JIS C 5201-1 4.18 Soldering condition : 260±5°C Duration of immersion : 10±1s.	
Rapid change of temperature	± (1.0%+0.05Ω) Max. 50mΩ		JIS C 5201-1 4.19 Test temp. : -55°C to +125°C 5cyc	
Damp heat, steady state	± (3.0%+0.1Ω) Max. 100mΩ		JIS C 5201-1 4.24 40°C, 93%RH Test time : 1,000h to 1,048h	
Endurance at 70°C	± (3.0%+0.1Ω)	Max. 100mΩ	JIS C 5201-1 4.25.1 Rated voltage (current), 70°C 1.5h : ON – 0.5h : OFF Test time : 1,000h to 1,048h	
Endurance	± (3.0%+0.1Ω)	Max. 100mΩ	JIS C 5201-1 4.25.3 155°C Test time : 1,000h to 1,048h	
Resistance to solvent	± (1.0%+0.05Ω)	Max. 50mΩ	JIS C 5201-1 4.29 23±5°C, Immersion cleaning, 5±0.5min. Solvent : 2-propanol	
Bend strength of the end face plating	± (1.0%+0.05Ω) Max. 50mΩ Without mechanical damage such as breaks.		JIS C 5201-1 4.33	

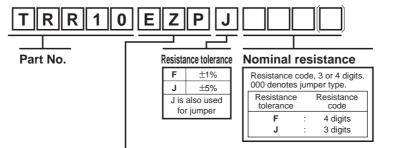
•Dimensions (Unit : mm)



•Packaging



Part No. Explanation



Packaging Specifications Code

Part No. Code	Code	Resistance tolerance		Dockoging apositions	Reel	Dopio ordering unit (pag)	
Part No.	Code	J(±5%)	F(±1%)	Packaging specifications	Reel	Basic ordering unit (pcs)	
TRR10	EZP	0	0	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000	

: Standard product

	Notes
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