Thick film rectangular

MCR25 (3225 size: 1 / 4W)

Features

- 1) Made of same material as the general purpose chip resistors (MCR10 / 18).
- 2) Highly reliable chip resistor
- Ruthenium oxide resistive material offers superior resistance to the elements.
- 3) Electrodes not corroded by soldering Suitable for re-flow soldering.
- 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.

Item	Conditions	Specifications		
Rated power	Power must be derated according to the power derating curve in Figure 1 when ambient temperature exceeds 70°C.	0.25W (1 / 4W) 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. $E = \sqrt{P \times R}$ $E: Rated voltage (V)$ $P: Rated power (W)$ $R: Nominal resistance (\Omega)$	Limiting element voltage 200		
Nominal resistance	See Table 1.			
Operating temperature		–55°C to +125°C		

Jumper type		Table 1			
Resistance	Max. 50mΩ	Resistance tolerance		Resistance temperature coefficient	
Rated current	2A		(Ω)		(ppm/°C)
Operating temperature	-55°C to +125°C	F (±1%)	$10 \le R \le 1M$	(E24,96)	±100
		J (±5%)	$1.0 \leq R < 2.2$	(E24)	500±350
			$2.2 \le R < 5.6$	(E24)	±500
			$5.6 \le R \le 3.3M$	(E24)	±200

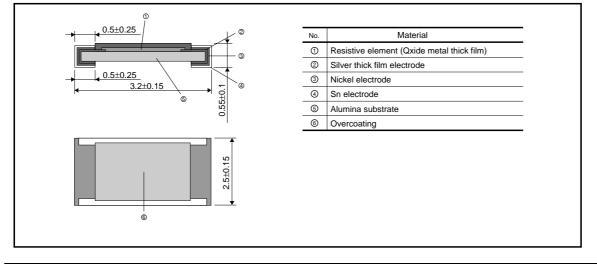
•Before using components in circuits where they will be exposed to transients such as pulse loads (short-duration, high-level loads), be certain to evaluate the component in the mounted state. In addition, the reliability and performance of this component cannot be guaranteed if it is used with a steady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



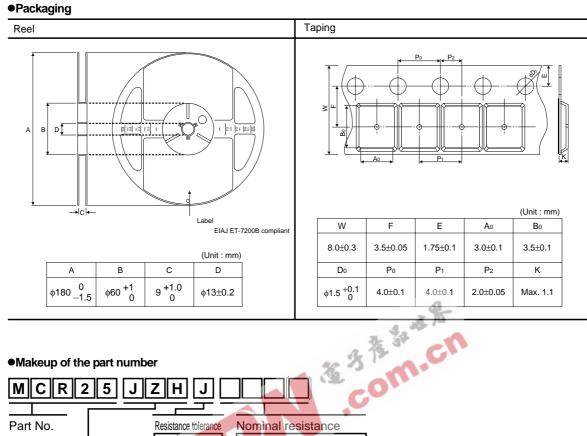
Characteristics

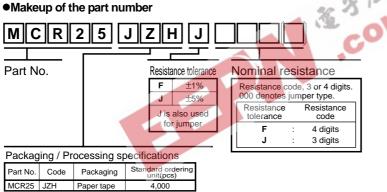
ltem	Guarant	eed value	Test conditions (JIS C 5201-1)	
llem	Resistor type Jumper type		Test conditions (JIS C 5201-1)	
Resistance	J:±5% F:±1%	Max. 50mΩ	JIS C 5201-1 4.5	
Variation of resistance with temperature	See 1	able.1	JIS C 5201-1 4.8 Measurement : -55 / +25 / +125°C	
Overload	± (2.0%+0.1Ω)	Max. 50mΩ	JIS C 5201-1 4.13 Rated voltage (current) ×2.5, 2s. Limiting Element Voltage×2 : 400V	
Solderability		ating of minimum of e being immersed 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	± (1.0%+0.05Ω) No remarkable abnorm	Max. $50m\Omega$ ality 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. 10 0mΩ	JIS C 5201-1 4.25.3 125°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) Without mechanical da	Max. 50m Ω amage such as breaks.	JIS C 5201-1 4.33	

•External dimensions (Unit : mm)

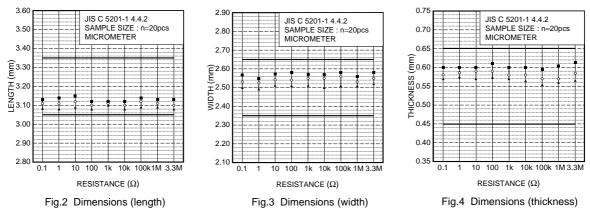


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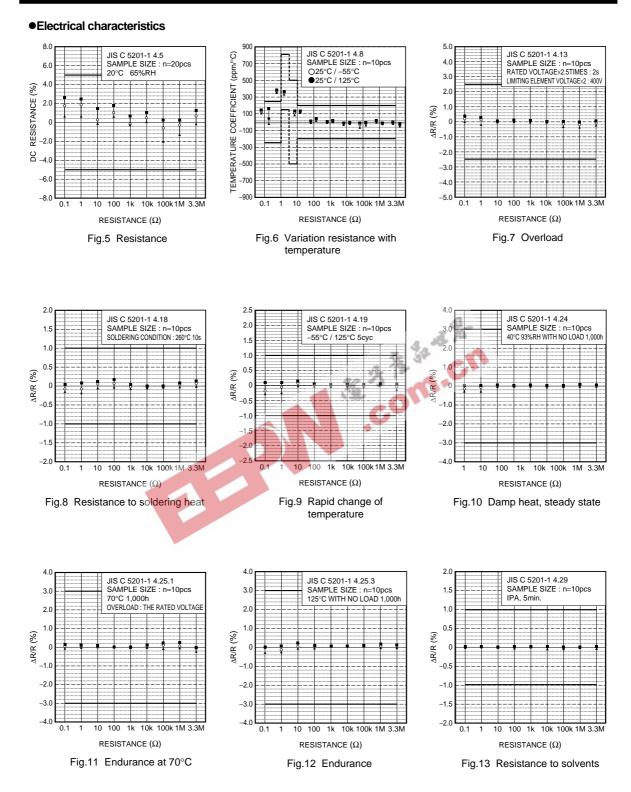


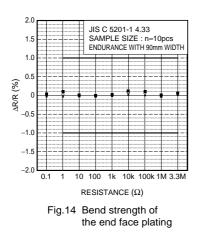


Dimensions



ROHM









5/5

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