Thick film rectangular MCR01 (1005 size: 1 / 16W)

Features

- Extremely small and light Area ratio is 60% smaller than that of chip 1608, while weight ratio has been cut 75%.
- 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.

Ratings

- Flat surface further facilitates mounting Mounting can also be automated.
- ROHM resistors have approved ISO–9001 certification.

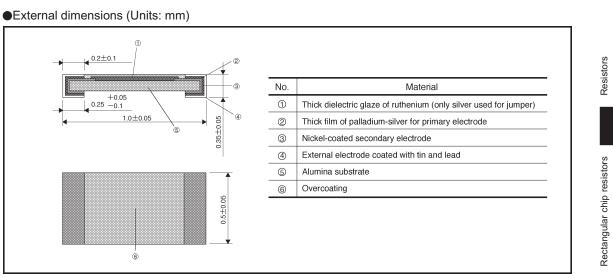
Design and specifications are subject to change without notice. Carefully check the specification sheet supplied with the product before using or ordering it. Resistors

Item	Conditions					Specifications		
Rated power	Figure 1 when ambier		ng to the power derating ture exceeds 70°C.	0.0	0.063W (1 / 16W) at 70°C			
		0 AMBIENT	70 100 125 TEMPERATURE (°C)	Fig.1				
Rated voltage	obtained exceeds the	s calculated by the following equation. If the value he maximum operating voltage, the voltage rating mum operating voltage.			Max.	Aax. operating voltage 50V		
		E: Rated	voltage (V)	Max. overload voltage 100V				
	E=/PXR		power (W) nal resistance (Ω)		Max.	intermittent overload voltage	100V	
Nominal resistance	See Table 1.						<u> </u>	
Operating temperature					-55	°C to +125°C		
Jumper type		1	Table 1					
Resistance	Max. 50m Ω	-	Resistance tolerance	Resistance rang (Ω)	e	Resistance temperature coef (ppm / °C)	ficient	
Rated current	0.5A	-	F (±1%)	100≦R≦2.2M (E	24)	±250		
Peak current	1.5A	-	J (±5%)		24)	+500 / -250		
Operating temperature	-55°C to +125°C			10≦R≦3.3M (E	24)	±250		

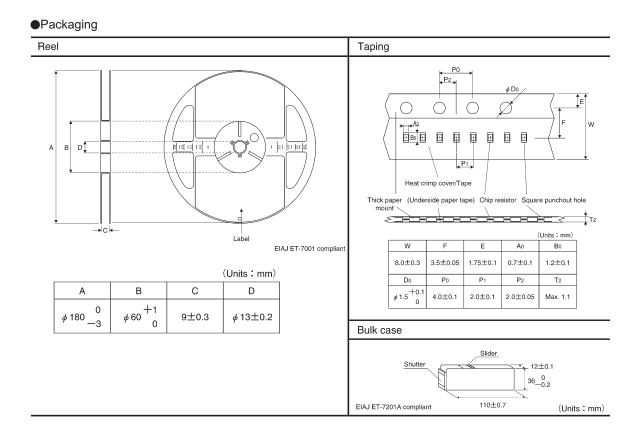
Before using components in circuits where they will be exposed to transients such as pulse loads (short-duration, high-level loads), be certain to evaluate the component in the mounted state. In addition, the reliability and performance of this component cannot be guaranteed if it is used with a steady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

Characteristics

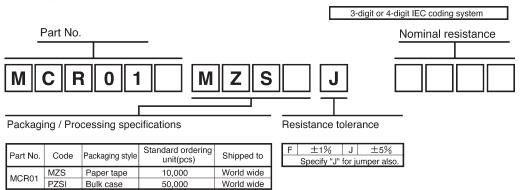
Characteristics	Speci	fications	- Test method (JIS C 5202)		
Characteristics	Chip resistance	Jumper type			
DC resistance	F:土1% J:土5%	Max. 50m Ω	JIS C 5202 5.1 Applied voltage: A		
Resistance temperature characteristics	See	Table 1.	JIS C 5202 5.2 Test conditions: +25 / -55 / +25 / +125°C		
Short time overload	±(2.0%+0.1Ω)	Max. 50m Ω	JIS C 5202 5.5 Rated voltage (current) : × 2.5, 5s. Maximum overload voltage: 100V		
Intermittent overload	± (5.0%+0.1Ω)	Max. 50m Ω	JIS C 5202 5.8 Rated voltage (current) : X2.5 (1s: ON - 25s: OFF) X10,000cyc.		
Terminal strength (against bending of circuit board)	\pm (1.0%+0.05 Ω) Max. 50m Ω There must be no mechanical damage.		JIS C 5202 6.1		
Resistance to soldering heat	\pm (1.0% +0.05 Ω) Outside must not be	Max. 50m Ω e noticeably damaged.	JIS C 5202 6.4 Soldering conditions: 260±5°C Soldering time: 10±1s.		
Solderability	new soldering, a	ace must be covered by and there must be ng corrosion.	JIS C 5202 6.5 Rosin methanol: (25%WT) Soldering conditions: 235±5°C Soldering time: 2.0±0.5s.		
Resistance to dry heat	±(3.0%+0.1Ω)	Max. 100m Ω	JIS C 5202 7.2 125 °C Test time: 1,000 to 1,048 hrs.		
Endurance (rated load)	±(3.0%+0.1Ω)	Max. 100m Ω	JIS C 5202 7.10 Rated voltage (current), 70°C 1.5h: ON — 0.5h: OFF Test time: 1,000 to 1,048 hrs.		
Endurance (under load in damp environment)	±(3.0%+0.1Ω)	Max. 100m Ω	JIS C 5202 7.9 Rated voltage (current), 60°C, 95%RH 1.5h: ON — 0.5h: OFF Test time: 1,000 to 1,048 hrs.		
Resistance to humidity (steady state)	±(3.0%+0.1Ω)	Max. 100m Ω	JIS C 5202 7.5 85°C, 85%RH Test time: 1,000 to 1,048 hrs.		
Temperature cycling	$\pm (1.0\% + 0.05 \Omega)$	Max. 50mΩ	JIS C 5202 7.4 Test temperature: -55°C to +125°C 100cyc.		
Resistance to solvents	±(0.5%+0.05Ω)	Max. 50m Ω	JIS C 5202 6.9 Room temperature, static immersion, 1 min. Solvent: Isopropyl alcohol		



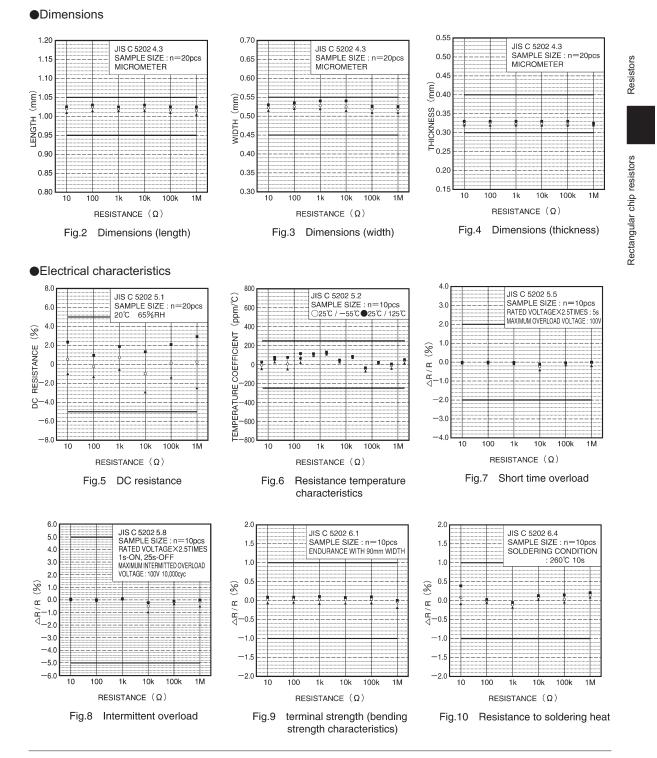
MCR01



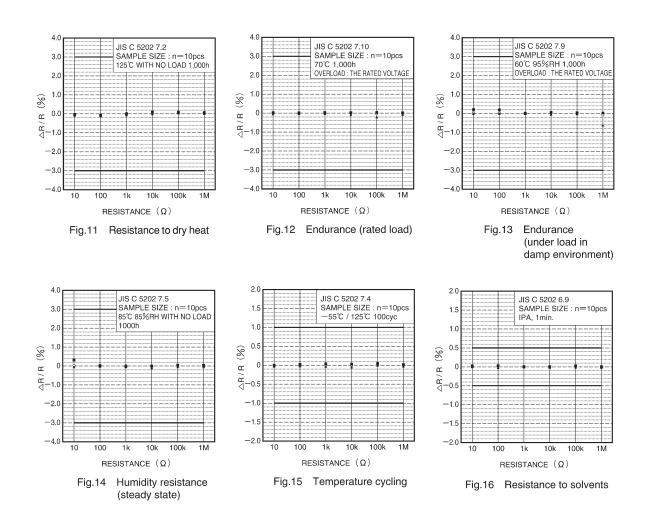
Product designation



MCR01







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