Compact Chip Resistor Networks

MNR32 (1206×2 size)

Features

- 1) Convex electrodes
 - Easy to check the fillet after soldering is finished.
- 2) Compatible with a wide range of mounting equipment.
 - Squared corners make it excellent for mounting using image recognition devices.
- 3) High-density mounting

Can be mounted even more densely than two 1206 chips (MCR18). Also, the number of parts and costs of mounting have been reduced.

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 Figure 1 when ambient temperature exceeds 70°C.	0.125W (1 / 8W) 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. $E: Rated voltage (V)$ $E=\sqrt{P \times R}$ $P: Rated power (W)$ $R: Nominal resistance (\Omega)$	Limiting element voltage 200V
Nominal resistance	See <u>Table 1.</u>	
Operating temperature		–55°C to 125°C

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Resistors

Jumper type		Table 1		
Resistance	Max. 50mΩ	Resistance tolerance	Resistance range	Resistance temperature coefficient
Rated current	2A		(Ω)	(ppm / °C)
Operating temperature	–55°C to 125°C	J (±5%)	10≦R≦1M (E24)	±200

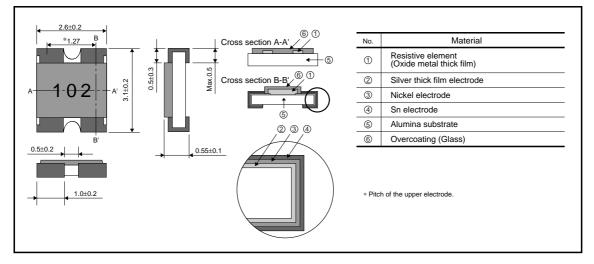
•Before using components in circuits where they will be exposed to transients such as pulse loads (short-duration, high-level loads), be certain to evaluate the component in the mounted state. In addition, the reliability and performance of this component cannot be guaranteed if it is used with a steady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

Characteristics

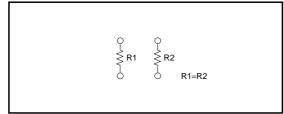
ltom	Guaranteed value		Test conditions (US C 5201.1)
Item	Resistor type	Jumper type	Test conditions (JIS C 5201-1)
Resistance	J : ±5%	Max. 50mΩ	JIS C 5201-1 4.5
Variation of resistance with temperature	See Table.1		JIS C 5201-1 4.8 Measurement : -55 / +25 / +125°C
Overload	± (2.0%+0.1Ω)	Max. 50mΩ	JIS C 5201-1 4.13 Rated voltage (current) ×2.5, 2s. Maximum Overload Voltage : 400V
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	± (1.0%+0.05Ω) No remarkable abnor	Max. 50mΩ mality 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 4.25.3 125°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	Max. 50mΩ damage such as breaks.	JIS C 5201-1 4.33

Resistors

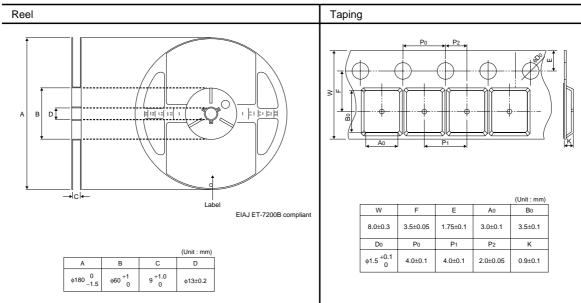
•Dimensions (Unit : mm)



Equivalent circuit



Packaging

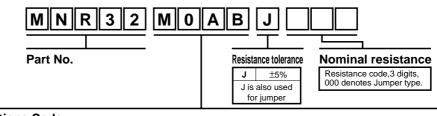


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Resistors

Part No. Explanation



Packaging Specifications Code

	ordering unit (pcs)
MNR32 J0AB Image: Constraint of the second	4,000

Reel (\u00f6180) : JEITA ET-7200B

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Notes

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Appendix1-Rev2.0

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