Compact 8-element Chip Resistor Networks

MNR35 (1206×5 size)

Features

- 1) Common terminals yield area 40% smaller than that of the MNR38.
- 2) 8-element construction makes the MNR35 ideal for bus line pull-up / pull-down.
- Convex electrodes
 Easy to check the fillet after soldering is finished.
- 4) Compatible with a wide range of mounting equipment.
- Squared corners make it excellent for mounting using image recognition devices.
- 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. 100 - 000 -	0.063W (1 / 16W) 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 50V		
Nominal resistance	See Table 1.			
Operating temperature		–55°C to +125°C		

Table 1

Resistance tolerance	Resistance range (Ω)	Resistance temperature coefficient (ppm / °C)
J (±5%)	56≤R≤100k (E12)	±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.

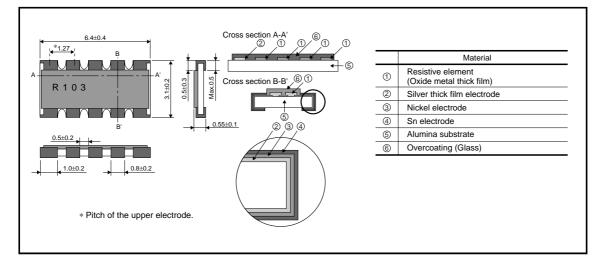


Resistors

Characteristics

Item	Guaranteed value	Test conditions (JIS C 5201-1) JIS C 5201-1 4.5	
nem	Resistor type		
Resistance	J : ±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)	JIS C 5201-1 4.13 Rated voltage (current) ×2.5, 2s. Maximum Overload Voltage : 100V	
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%+0.1Ω) 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%+0.1Ω)	JIS C 5201-1 4.19 Test temp. : -55°C to +125°C 5cyc	
Damp heat, steady state	± (3.0%+0.1Ω)	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)	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)	JIS C 5201-1 4.25.3 125°C Test time : 1,000h to 1,048h	
Resistance to solvent	± (1.0%+0.1Ω)	JIS C 5201-1 4.29 23±5°C, Immersion cleaning, 5±0.5mir Solvent : 2-propanol	
Bend strength of the end face plating	\pm (1.0%+0.05 Ω) Without mechanical damage such as breaks.	JIS C 5201-1 4.33	

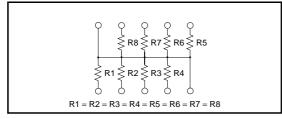
•Dimensions (Unit : mm)



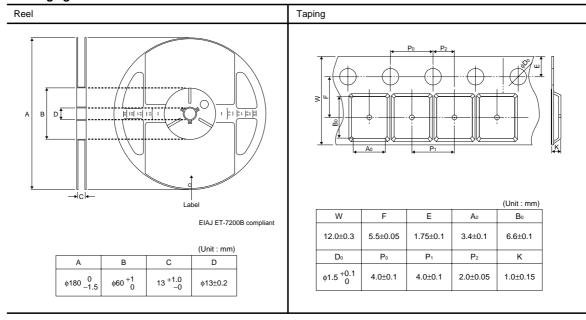
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Resistors

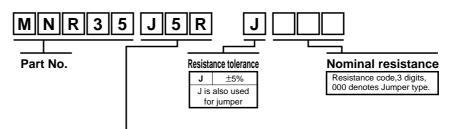
Equivalent circuit



Packaging



Part No. Explanation



Packaging Specifications Code

Part No.	Code	Resistance tolerance J(±5%)	Packaging specifications	Reel	Basic ordering unit (pcs)
MNR35	J5R	O	Embossed tape (4mm Pitch)	φ180mm (7in.)	4,000

Reel (\u00f6180) : JEITA ET-7200B

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Notes

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Appendix1-Rev2.0

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