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.
- 3) Convex electrodes
 - Easy to check the fillet after soldering is finished.
- Compatible with a wide range of mounting equipment.
 Squared corners make it excellent for mounting using image recognition devices.
- 5) 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. **Bottom of the power derating curve in Figure 1 when ambient temperature exceeds 70°C. **Bottom of the power derating curve in Fig. 1	0.063W (1 / 16W) at 70°C
Rated voltage		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 coefficier (ppm / °C)	
J (±5%)	56≤R≤100k (E12)	±200	

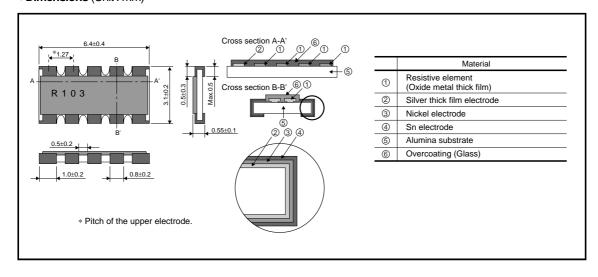
[•]Before using components in circuits where they will be exposed to transients such as pulse loads (short-duration, high-level loads), be certain to evaluate the component in the mounted state. In addition, the reliability and performance of this component cannot be guaranteed if it is used with a steady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



Characteristics

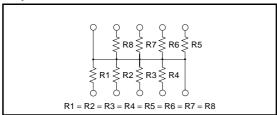
Item	Guaranteed value	Test conditions (JIS C 5201-1)	
nem	Resistor type		
Resistance	J:±5%	JIS C 5201-1 4.5	
Variation of resistance with temperature	See <u>Table.1</u>	JIS C 5201-1 4.8 Measurement : -55 / +25 / +125°C	
Overload	± (2.0%+0.1Ω)	JIS C 5201-1 4.13 Rated voltage (current) ×2.5, 2s. Maximum 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	$\label{eq:total_problem} \pm (\text{1.0\%+0.1}\Omega)$ 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	$\begin{array}{ccc} & & \pm (1.0\% + 0.1\Omega) & & \text{JIS C 5201-1 4.29} \\ & & & 23 \pm 5^{\circ}\text{C, Immersion clea} \\ & & & \text{Solvent : 2-propanol} \end{array}$		
Bend strength of the end face plating $\pm (1.0\% + 0.05\Omega)$ JIS C 5201-1 4.33 Without mechanical damage such as breaks.		JIS C 5201-1 4.33	

●Dimensions (Unit:mm)

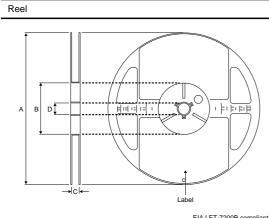




●Equivalent circuit



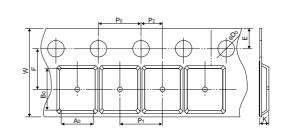
Packaging



EIAJ ET-7200B compliant

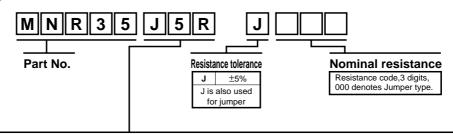
			(Unit : mm)
А	В	С	D
φ180 0 -1.5	φ60 ⁺¹ ₀	13 ^{+1.0} ₋₀	φ13±0.2

Taping



				(Unit : mm)
W	F	Е	A 0	Bo
12.0±0.3	5.5±0.05	1.75±0.1	3.4±0.1	6.6±0.1
D ₀	P ₀	P ₁	P ₂	К
φ1.5 ^{+0.1}	4.0±0.1	4.0±0.1	2.0±0.05	1.0±0.15

●Part No. Explanation



Packaging Specifications Code

Part No.	Code	Resistance tolerance J(±5%)	Packaging specifications	Reel	Basic ordering unit (pcs)
MNR35	J5R	0	Embossed tape (4mm Pitch)	φ180mm (7in.)	4,000

Reel (\phi180) : JEITA ET-7200B

O : Standard product

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