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.
- 4) 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. 80 60 20 -55 0 70 100 125 AMBIENT TEMPERATURE (°C) 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	

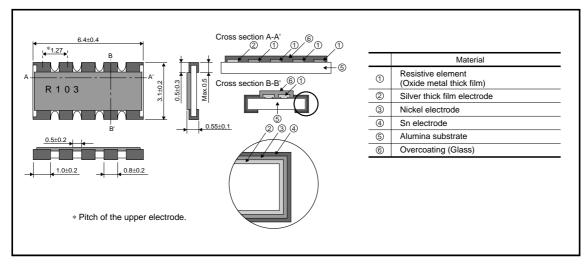
[•]Before using components in circuits where they will be exposed to transients such as pulse loads (short-duration, high-level loads), be certain to evaluate the component in the mounted state. In addition, the reliability and performance of this component cannot be guaranteed if it is used with a steady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



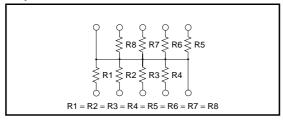
Characteristics

Item	Guaranteed value	Test conditions (JIS C 5201-1)	
nem	Resistor type	rest conditions (315 C 5201-1)	
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	${}^{\pm}\text{(1.0\%+0.1\Omega)}$ 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	± (1.0%+0.1Ω)	JIS C 5201-1 4.29 23±5°C, Immersion cleaning, 5±0.5min. Solvent : 2-propanol	
Bend strength of the end face plating	$\pm~(1.0\% + 0.05\Omega)$ Without mechanical damage such as breaks.	JIS C 5201-1 4.33	

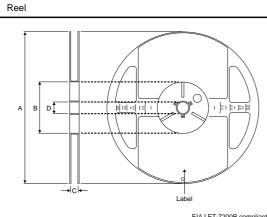
●Dimensions (Unit : mm)



●Equivalent circuit



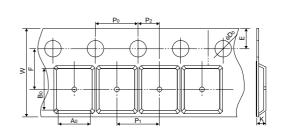
Packaging



EIAJ ET-7200B compliant

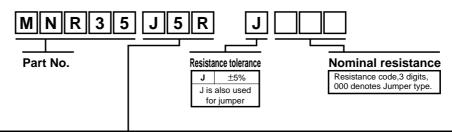
			(Unit : mm)
Α	В	С	D
φ180 0 -1.5	φ60 ⁺¹ ₀	13 ^{+1.0}	φ13±0.2

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

I	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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