Chip resistor networks

MNR35 (3216×5 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 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.

●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 80 40 20 -55 0 70 100 125 AMBIENT TEMPERATURE (°C) Fig.1			
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. $E : \text{Rated voltage (V)} \\ E = \sqrt{P \times R} \qquad P : \text{Rated power (W)} \\ R : \text{Nominal resistance } (\Omega)$	Limiting element voltage 50V		
Nominal resistance	See Table 1.			
Operating temperature		−55°C~+125°C		

Table 1

Resistance tolerance	Resistance range (Ω)	Resistance temperature coefficient (ppm / °C)	
J (±5%)	56≤R≤100k (E12)	±200	

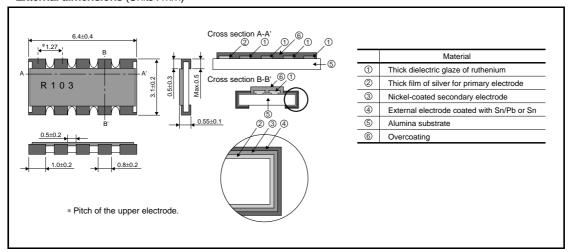
[•]Before using components in circuits where they will be exposed to transients such as pulse loads (short-duration, high-level loads), be certain to evaluate the component in the mounted state. In addition, the reliability and performance of this component cannot be guaranteed if it is used with a steady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



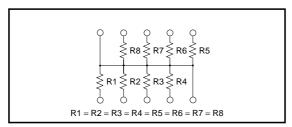
Characteristics

Item	Guaranteed value	Test conditions (JIS C 5201-1)	
	Resistor type		
Resistance	J:±5%	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)	JIS C 5201-1 4.13 Rated voltage (current) ×2.5, 2s. Limiting Element Voltage×2 : 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%+0.05 Ω) 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%+0.05Ω)	JIS C 5201-1 4.19 Test temp. : –55°C~+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~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~1,048h	
Endurance	± (3.0%+0.1Ω)	JIS C 5201-1 4.25.3 125°C Test time : 1,000h~1,048h	
Resistance to solvent	± (1.0%+0.05Ω)	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	

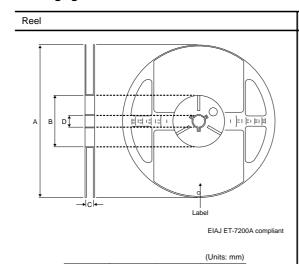
●External dimensions (Units : mm)



●Equivalent circuit



Packaging



В

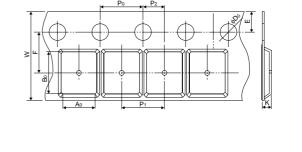
φ60 ⁺¹₀

С

13±0.3

D

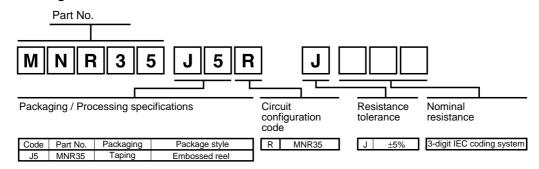
φ13±0.2



				(Units: mm)
W	F	Е	A ₀	B₀
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	K
φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	1.0±0.15

Product designation

φ180 ₋₃



Taping

Electrical characteristics

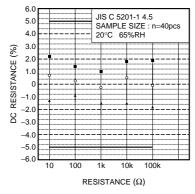


Fig.2 Resistance

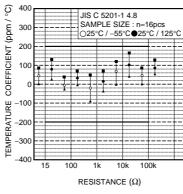


Fig.3 Variation resistance with temperature

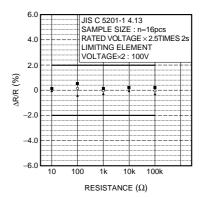


Fig.4 Overload

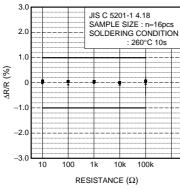


Fig.5 Resistance to soldering heat

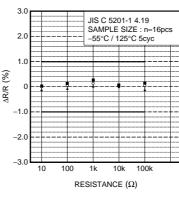


Fig.6 Rapid change of temperature

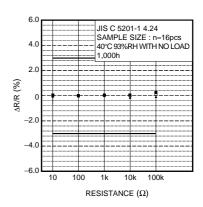


Fig.7 Damp heat, steady state

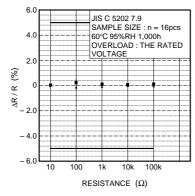


Fig.8 Endurance (under load in damp environment)

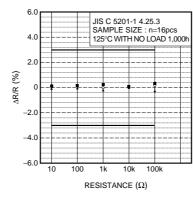


Fig.9 Endurance

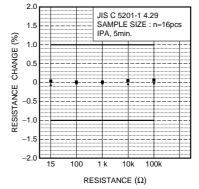


Fig.10 Resistance to solvents

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