

Compact 8-element Chip Resistor Networks

MNR18 (0602×8 size)

Features

- 1) Suitable for damping resistors.
- 2) Convex electrodes
- Easy to check the fillet after soldering is finished.
- 3) High-density mounting
- Can be mounted even densely than eight 0402 chips (MCR01), and mounting costs are lower.
- 4) Compatible with a wide range of mounting machines.
- Squared corners make it excellent for mounting using image recognition machines.
- 5) ROHM resistors have approved ISO9001- / ISO/TS16949- 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

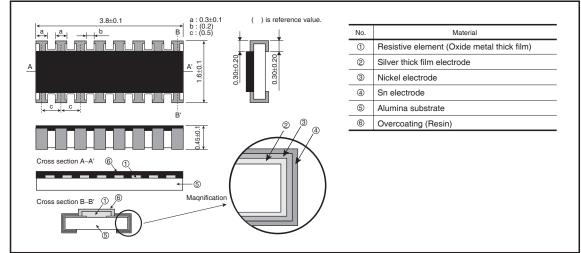
Item	Conditions	Specifications	
Rated power	Power must be derated according to the power derating curve in Figure 1 when ambient temperature exceeds 70°C.	0.063W (1 / 16W) at 70°C	
	G 20 -55 -55 -55 -55 -55 -55 -55 -55 -55 -5	Power for a Packaging Max 0.25W (1 / 4W)	
Rated voltage	The voltage rating 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 (Ω)	Limiting element voltage 25V	
Nominal resistance	See Table 1.		
Operating temperature		–55°C to +125°C	

Jumper type		Table 1			
1A Rated current Power for a Packa	Max. 50mΩ	Resistance tolerance	Resistance range (Ω)	Resistance temperature coefficient (ppm / °C)	
	TA Power for a Packaging Max 0.25W (1 / 4W)	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			
Operating temperature	e −55°C to +125°C	guaranteed if it is used with	a steady state voltage that is great	er than its rated voltage.	·

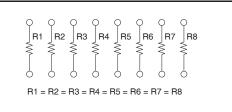
Characteristics

lteres	Guaranteed value		
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	Max. 50mΩ	JIS C 5201-1 4.8 Measurement : +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 : 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	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		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			JIS C 5201-1 4.33

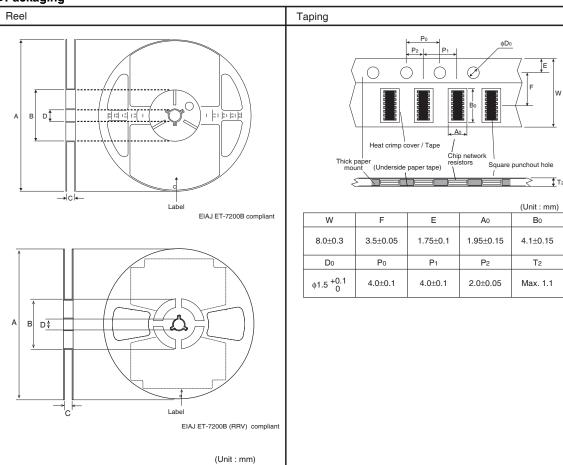
•Dimensions (Unit : mm)



Inner circuit



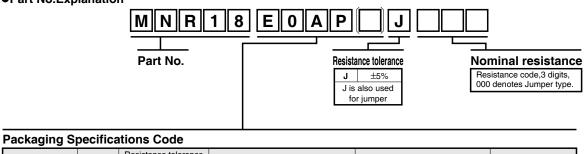
Packaging



Part No.Explanation

А

 $_{\phi180} \begin{smallmatrix} 0 \\ -1.5 \end{smallmatrix}$



Resistance tolerance Part No. Code Basic ordering unit (pcs) Packaging specifications Reel J (±5%) Paper tape (4mm Pitch) MNR18 E0AP ¢180mm (7inch) 5,000

Reel (\phi180mm) : Compatible with JEITA standard "EIAJ ET-7200B" ③ : Standard product

В

φ60⁺¹0

С

9 +1.0

0

D

φ13±0.2

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