

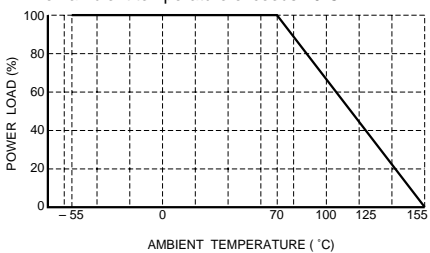
Chip trimmer potentiometers

MVR21

●Features

- 1) Extremely small size and light weight facilitate the assembly of light, thinner, and smaller equipment.
- 2) Close match between wiper and resistive element reduces wiper noise.
- 3) Ruthenium oxide resistor material, with superb stability and resistance to humidity and the elements, offers the same outstanding reliability of our existing product (MVR22).
- 4) Open design for reflow soldering.
- 5) Cross groove for easy adjustment.
- 6) Protective film prevents short circuits due to terminal contact.
- 7) ROHM resistors have approved ISO-9001 / 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.  Fig.1	0.15W (3 / 20W) / element at 70°C		
Rated voltage	The voltage rating is calculated by the following equation. If the value obtained exceeds the maximum operating voltage, the voltage rating is equal to the maximum operating voltage. $E = \sqrt{P \times R}$ E : Rated voltage (V) P : Rated power (W) R : Nominal resistance (Ω)	<table border="1"> <tr> <td>Max. operating voltage</td> <td>50V</td> </tr> </table>	Max. operating voltage	50V
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Nominal total resistance range		100 to 2.2MΩ (recommended resistance value : E3 series) (applicable resistance value : E6 series)		
Total resistance tolerance		±25%		
Resistance variation		B (linear) characteristics		
Operating temperature		-55°C to +155°C		

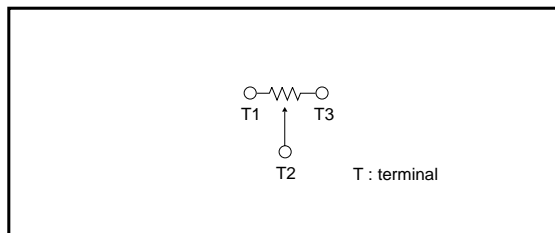
Resistors

●Dimensions (Unit: mm)

Name of part	Material
① Substrate	Alumina substrate
Resistance paste	Thick film resistive element
② Wiper	Metal
③ 2nd Terminal (T2)	Metal and Ni plating and Sn plating
④ 1st,3rd Terminals (T1, T3)	Metal and Ni plating and SnAgCu solder
⑤ Protective film	Insulator

A	(B)	C	D	E	F	G
2.0 ^{+0.15} _{-0.05}	(1.35±0.2)	1.5±0.2	2.85±0.15	0.4 ^{+0.05} ₀	1.35 ^{+0.05} ₀	0.75 ^{+0.15} ₋₀
H	I	J	K	L	M	N
0.9±0.1	1.0±0.1	0.55±0.1	0.6±0.2	0.75±0.1	1.02±0.1	0.48±0.1

●Equivalent circuit

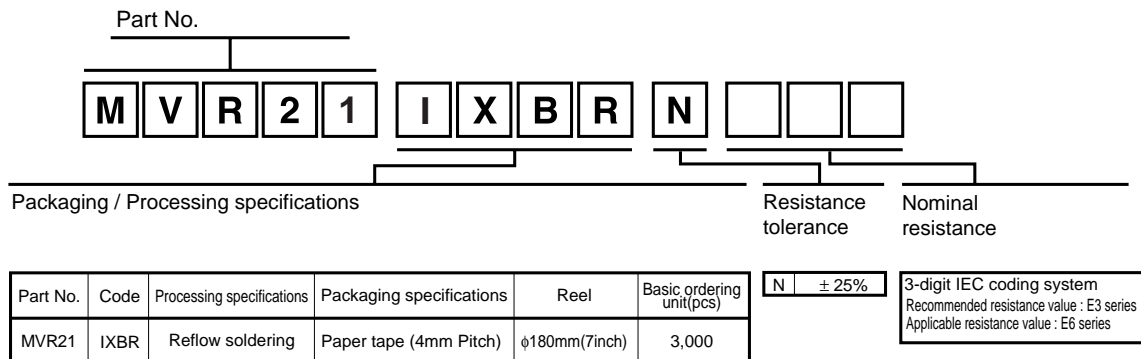


●Packaging

Reel	Taping																												
<p>Compatible with JEITA standard "EIAJ ET-7200B"</p> <table border="1"> <caption>(Unit : mm)</caption> <thead> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>φ180⁰₋₃</td> <td>φ60⁺¹₀</td> <td>9 ± 1.0/-0</td> <td>φ13 ± 0.2</td> </tr> </tbody> </table>	A	B	C	D	φ180 ⁰ ₋₃	φ60 ⁺¹ ₀	9 ± 1.0/-0	φ13 ± 0.2	<table border="1"> <caption>(Unit : mm)</caption> <thead> <tr> <th>W</th> <th>F</th> <th>E</th> <th>A₀</th> <th>B₀</th> </tr> </thead> <tbody> <tr> <td>8.0 ± 0.2</td> <td>3.5 ± 0.05</td> <td>1.75 ± 0.1</td> <td>2.45 ± 0.1</td> <td>3.2 ± 0.1</td> </tr> <tr> <th>D₀</th> <th>P₀</th> <th>P₁</th> <th>P₂</th> <th>K</th> </tr> <tr> <td>φ1.5^{+0.1}₀</td> <td>4.0 ± 0.1</td> <td>4.0 ± 0.1</td> <td>2.0 ± 0.05</td> <td>1.8⁺⁰_{-0.1}</td> </tr> </tbody> </table>	W	F	E	A ₀	B ₀	8.0 ± 0.2	3.5 ± 0.05	1.75 ± 0.1	2.45 ± 0.1	3.2 ± 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	1.8 ⁺⁰ _{-0.1}
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Resistors

●Part No. Explanation



Notes

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