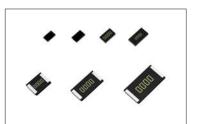


Ultra-low Ohmic Jumper Chip Resistors

PMR Series

Features

- 1) Metallic resistive element utilized for extremely low conduction resistance. (0.5m Ω Max.)
- 2) High current capability.
- 3) Superior strength against overcurrent and pulse loads.
- 4) Completely Pb free product.
- 5) Easy(surface) mounting enables simple replacement of jumper leads.
- 6) ROHM resistors have obtained ISO9001 / ISO / TS16949 certification.



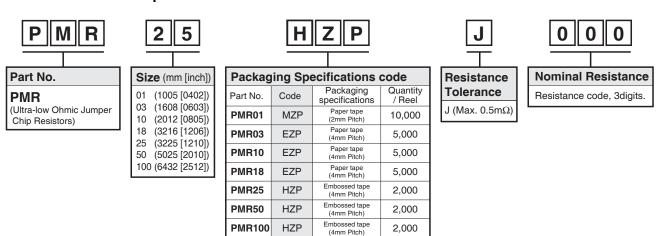
Products List

Dort No.	Si	ze	Rated Current	Desistance	Temperature Range	
Part No.	(mm)	(inch)	(A)	Resistance	(°C)	
PMR01	1005	0402	20.0			
PMR03	1608	0603	22.4			
PMR10	2012	0805	31.6		−55 to +155	
PMR18	3216	1206	38.7	0.5mΩ Max.		
PMR25	3225	1210	44.7			
PMR50	5025	2010	50.0			
PMR100	6432	2512	63.2			

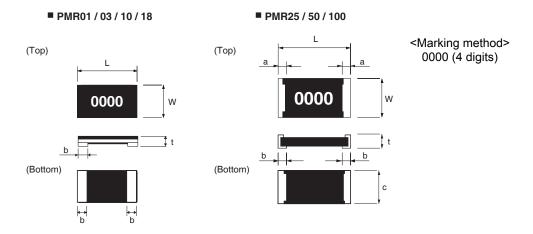
^{*}Design and specifications are subject to change without notice.

Carefully check the specification sheet supplied with the product before using or ordering it.

Part Number Description



Chip Resistor Dimensions and Markings

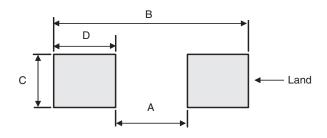


(Unit:mm)

2012.08 - Rev.B

Part No.	(mm)	(inch)	L	W	t	а	b	С	Marking existence
PMR01	1005	0402	1.0±0.05	0.5±0.05	0.25±0.1	_	0.3±0.1	_	No
PMR03	1608	0603	1.6±0.15	0.8±0.15	0.25±0.1	-	0.35±0.15	-	No
PMR10	2012	0805	2.0±0.15	1.1 ^{+0.15} _{-0.05}	0.32±0.15	-	0.55±0.25	-	Yes
PMR18	3216	1206	3.2±0.15	1.6±0.15	0.32±0.1	-	0.9±0.25	-	Yes
PMR25	3225	1210	3.2±0.2	2.5±0.15	0.32±0.15	0.5±0.2	0.9±0.2	1.95±0.2	Yes
PMR50	5025	2010	5.0±0.2	2.5±0.2	0.32±0.15	0.5±0.2	1.4±0.2	1.95±0.2	Yes
PMR100	6432	2512	6.4±0.25	3.2±0.25	0.32±0.15	0.5±0.25	1.7±0.25	2.65±0.25	Yes

Land pattern Example

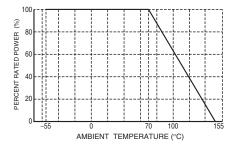


(Unit : mm)

				(31)
Dimensions Part No.	Α	В	С	D
PMR01	0.5	1.8	0.5	0.65
PMR03	0.5	2.5	0.9	1.0
PMR10	0.8	3.4	1.3	1.3
PMR18	1.0	4.0	1.8	1.5
PMR25	1.0	4.0	2.8	1.5
PMR50	1.8	6.0	2.8	2.1
PMR100	2.4	7.6	3.8	2.6

● **Derating Curve**When the ambient temperature exceeds 70°C, power dissipation must be adjusted according to the derating curves below.

■ PMR01 / 03 / 10 / 18 / 25 / 50 / 100



Characteristics

Test Items	Guaranteed Value	Test Conditions		
Resistance	Max. 0.5mΩ	20°C (Under terminations) Measuring method: Measure under terminations by 4 probes.		
Variation of resistance with temperature	Max. 0.5mΩ	Measurement: +20 / -55 / +20 / +125°C		
Overload	Max. 0.5mΩ	Rated power × 2.5, 2s		
Solderability	A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.	Rosin·Ethanol : 25% (Weight) Soldering condition : 235±5°C Duration of immersion : 2.0±0.5s		
Resistance to soldering heat	$\mbox{Max. 0.5m} \Omega \\ \mbox{No remarkable abnormality on the appearance.}$	Soldering condition : 260±5°C Duration of immersion : 10±1s		
Rapid change of temperature	Max. 0.5mΩ	Test temp.: -55°C to +125°C 5cycle		
Damp heat, steady state	Max. 0.5mΩ	40°C, 93%RH (Relative Humidity) Test time: 1,000h to 1,048h		
Endurance at 70°C	Max. 0.5mΩ	70°C Rated power 1.5h: ON – 0.5h: OFF Test time: 1,000h to 1,048h		
Endurance	Max. 0.5mΩ	155°C Test time: 1,000h to 1,048h		
Resistance to solvent	Max. 0.5mΩ	23±5°C, Immersion cleaning, 5±0.5min Solvent : 2-propanol		
Bend strength of the end face plating	Without mechanical damage such as breaks.	_		

Compliance Standard(s): IEC60115-8

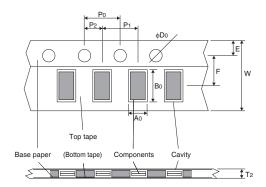
JISC 5201-8

Technical data

Parameter	Unit	PMR01	PMR03	PMR10	PMR18	PMR25	PMR50	PMR100
Weight	mg/pc	0.923	2.48	4.59	10.49	19.3	30.1	48.5

●Tape Dimensions

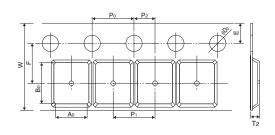
■Paper Tape



					(Unit : mm)
Part No.	W	F	Е	A0	Bo
PMR01	8.0±0.3	3.5±0.05	1.75±0.1	0.7±0.1	1.2±0.1
PMR03	8.0±0.3	3.5±0.05	1.75±0.1	0.95±0.1	1.75±0.1
PMR10	8.0±0.3	3.5±0.05	1.75±0.1	1.65 ^{+0.2} _{-0.1}	2.4 +0.2 -0.1
PMR18	8.0±0.3	3.5±0.05	1.75±0.1	1.95 +0.1 -0.05	3.5 +0.15 -0.05

Part No.	D ₀	Po	P1	P2	T2
PMR01	φ1.5 ^{+0.1} ₀	4.0±0.1	2.0±0.05	2.0±0.05	Max 1.1
PMR03	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
PMR10	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
PMR18	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1

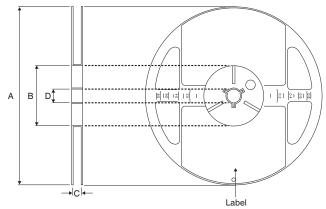
■Embossed Tape



					(Unit : mm)
Part No.	W	F	Е	A0	B0
PMR25	8.0±0.3	3.5±0.05	1.75±0.1	3.0±0.1	3.5±0.1
PMR50	12.0±0.3	5.5±0.05	1.75±0.1	2.9±0.2	5.3±0.2
PMR100	12.0±0.3	5.5±0.05	1.75±0.1	3.5±0.2	6.7±0.2

Part No.	D ₀	Po	P1	P2	T2
PMR25	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
PMR50	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
PMR100	φ1.5 ^{+0.1} ₀	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1

•Reel Dimensions



ACCORDING TO EIAJ ET-7200B (Unit : mm)

Part No.	Α	В	С	D
PMR01				
PMR03				
PMR10			9 +1.0	
PMR18	φ180 ⁰ -1.5	φ60 ^{+1.0} 0		φ13±0.2
PMR25	1.5			
PMR50			13 +1.0	
PMR100			13 0	

Notes

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