

Ultra-Low Ohmic Resistors for Current Detection

PMR10

●Features

- 1) Ultra low-ohmic resistance range (2mΩ~)
- 2) Lowest height (≤0.5mm)
- 3) Improved current detection accuracy by trimming-less structure.
Highly recommended for large current / High speed switching circuit.
- 4) Completely Pb free product
- 5) ISO9001- / ISO/TS 16949-approved

●Quick reference

The design and specifications are subject to change without prior notice. Before ordering or using, please check the latest technical specifications.

Part No.	Size code	Rated power (70°C)	Resistance tolerance	Temperature coefficient (ppm / °C)	Resistance value (mΩ)	Operating temperature range (°C)
PMR10	2012 (0805)	1/2W	F (±1%) G (±2%) J (±5%)	±150	2, 3, 4, 5, 6, 7, 8, 9, 10	−55 to +155

●Dimensions (Unit : mm)

Part No.	Size code	L	W	t	b
PMR10	2012 (0805)	2.0±0.15	1.2±0.15	0.42 to 0.28"±0.15	0.6 to 0.2"±0.15

* : Each value range varies with the resistance.

Resistors

●Part No. Explanation

P	M	R	1	0	E	Z	P	J	V				
Part No.					Resistance tolerance				Special part number				Nominal resistance
					F	±1%			U	5 to 10mΩ			Resistance code, 3 or 4 digits.
					G	±2%			V	1 to 4mΩ			
					J	±5%							
											Resistance tolerance		
											Resistance code		
											Resistance Value (Ω)		
											Resistance Tolerance		
											J		
											F		
											2mΩ		
											3mΩ		
											4mΩ		
											5mΩ		
											6mΩ		
											7mΩ		
											8mΩ		
											9mΩ		
											10mΩ		

Packaging Specifications Code

Part No.	Code	Resistance tolerance		Packaging specifications	Reel	Basic ordering unit (pcs)
		J(±5%)	F(±1%)			
PMR10	EZP	◎	◎	Paper tape (4mm Pitch)	φ180mm (7in.)	5,000

Reel (φ180) : Compatible with JEITA standard "EIAJ ET-7200B"

◎ : Standard product

●Packaging

Reel

Diagram of a reel showing dimensions A, B, C, D, and a label. The reel is circular with a central hub and four spokes. The dimensions are defined as follows: A is the outer diameter, B is the inner diameter, C is the width of the reel, and D is the diameter of the central hub. A label is shown on the central hub.

EIAJ ET-7200B compliant

(Unit : mm)

A	B	C	D
$\phi 180 \begin{smallmatrix} 0 \\ -1.5 \end{smallmatrix}$	$\phi 60 \begin{smallmatrix} +1 \\ 0 \end{smallmatrix}$	$9 \begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$	$\phi 13 \pm 0.2$

Taping

Diagram of a tape showing dimensions W, F, E, A₀, B₀, D₀, P₀, P₁, P₂, and K. The tape is rectangular with a central cavity and four components. The dimensions are defined as follows: W is the width, F is the height, E is the thickness, A₀ is the distance from the center of the cavity to the edge, B₀ is the distance from the center of the components to the edge, D₀ is the diameter of the components, P₀ is the pitch between the components, P₁ is the pitch between the components, and P₂ is the pitch between the components. The labels 'Base paper', 'Top tape', 'Components', and 'Cavity' are shown.

(Unit : mm)

W	F	E	A ₀	B ₀
8.0 ± 0.3	3.5 ± 0.05	1.75 ± 0.1	$1.65 \begin{smallmatrix} +0.2 \\ -0.1 \end{smallmatrix}$	$2.4 \begin{smallmatrix} +0.2 \\ -0.1 \end{smallmatrix}$
D ₀	P ₀	P ₁	P ₂	K
$\phi 1.5 \begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$	4.0 ± 0.1	4.0 ± 0.1	2.0 ± 0.05	Max. 1.1

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