

## RBP Metal Thin Film Chip Resistors

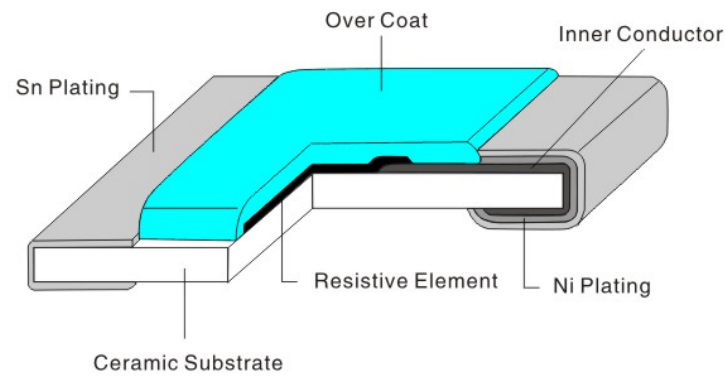
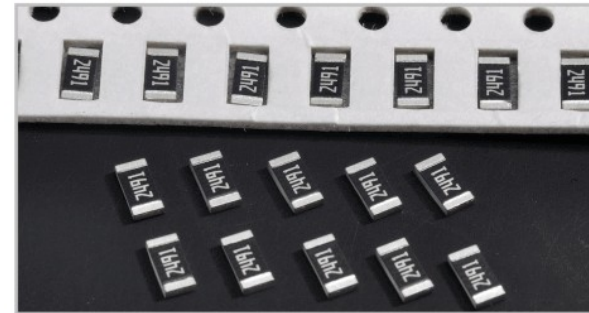
(Halogen Free)  
RoHS  
Compliant

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### Features

- Low parasitics
- Excellent high-frequency stability
- Low noise
- Narrow tolerance
- Low profile
- High integration potential

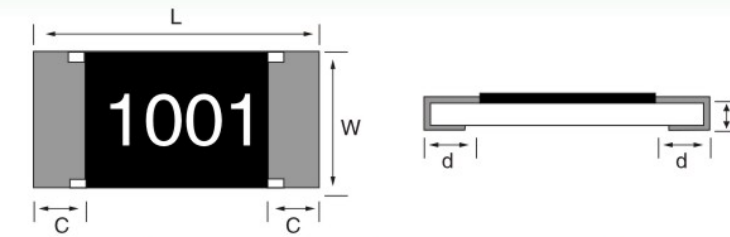
### Construction



### Type Designation

RBP	06	B	T	P	1001
Product Code	Size Power Rating (at 70°C)	Tolerance	Packaging	TCR (ppm/°C)	Nominal Resistance
Metal Thin Film	06:0603 (1.6×0.8mm) 1/8W 08:0805 (2.0×1.2mm) 1/4W 12:1206 (3.2×1.6mm) 1/2W 13:1210 (3.2×2.6mm) 1/2W 20:2010 (5.0×2.5mm) 1W 25:2512 (6.4×3.2mm) 2W	B:±0.10% C:±0.25% D:±0.50% F:±1.00% G:±2.00% J:±5.00%	T:Paper Tape B:Bulk Cassette	J:±5ppm K:±10ppm M:±15ppm P:±25ppm S:±50ppm T:±100ppm	e.g., 1001=1kΩ

### Dimensions



Unit:mm

Type	L	W	C	d	t
RBP06	1.60±0.10	0.80±0.10	0.30±0.20	0.4 <sup>+0.20</sup> <sub>-0.10</sub>	0.45±0.10
RBP08	2.00±0.10	1.25±0.10	0.40±0.20	0.45±0.20	0.50±0.10
RBP12	3.10±0.10	1.55±0.10	0.50±0.30	0.50±0.20	0.55±0.10
RBP13	3.10±0.10	2.55±0.10	0.50±0.30	0.50±0.20	0.60±0.10
RBP20	5.10±0.15	2.50±0.15	0.60±0.30	1.40±0.25	0.60±0.10
RBP25	6.30±0.20	3.20±0.20	0.60±0.30	1.85±0.25	0.60±0.10

### Rating & Characteristic

Type	Power Rating at 70°C	Rated Voltage	Max. Working Voltage	Max. Over-load Voltage	T.C.R (PPM/°C)	Resistance Range	Resistance tolerance (%)
RBP06	1/8W	(P*R) <sup>1/2</sup>	75V	150V	±50 ±100	1Ω-9.1Ω	±0.5~±5.0
RBP06	1/8W	(P*R) <sup>1/2</sup>	75V	150V	±10 ±25 ±50 ±100	10Ω-390KΩ	±0.1~±5.0
RBP08	1/4W	(P*R) <sup>1/2</sup>	150V	300V	±50 ±100	1Ω-9.1Ω	±0.5~±5.0
RBP08	1/4W	(P*R) <sup>1/2</sup>	150V	300V	±10 ±25 ±50 ±100	10Ω-800KΩ	±0.1~±5.0
RBP12	1/2W	(P*R) <sup>1/2</sup>	150V	300V	±50 ±100	1Ω-9.1Ω	±0.5~±5.0
RBP12	1/2W	(P*R) <sup>1/2</sup>	150V	300V	±10 ±25 ±50 ±100	10Ω-1MΩ	±0.1~±5.0
RBP13	1/2W	(P*R) <sup>1/2</sup>	150V	300V	±50 ±100	1Ω-9.1Ω	±0.5~±5.0
RBP13	1/2W	(P*R) <sup>1/2</sup>	150V	300V	±10 ±25 ±50 ±100	10Ω-1MΩ	±0.1~±5.0
RBP20	1W	(P*R) <sup>1/2</sup>	150V	300V	±50 ±100	1Ω-9.1Ω	±0.5~±5.0
RBP20	1W	(P*R) <sup>1/2</sup>	150V	300V	±10 ±25 ±50 ±100	10Ω-1MΩ	±0.1~±5.0
RBP25	2W	(P*R) <sup>1/2</sup>	150V	300V	±50 ±100	1Ω-9.1Ω	±0.5~±5.0
RBP25	2W	(P*R) <sup>1/2</sup>	150V	300V	±10 ±25 ±50 ±100	10Ω-1MΩ	±0.1~±5.0

Operating Temp(°C): -55°C~+125°C

Note: 1.  $E = \sqrt{P \cdot R}$ . E=Rated Voltage(V); P=Rated Power(W); R=Resistance Value(Ω)  
2. Except for the above standardized products, we also provide the customized products.