

# RP series, RPH series, high-power metal film chip resistors



Resistors with high power in small size are realized as 1/3W for 2.0×1.25mm(0805) size, 1/5W for 1.6×0.8mm(0603) size and 1/6W for 1.0×0.5mm(0402) size. A tight resistance tolerance at ±1% is achieved.

**NEW** RPH1608 resistors with more high power are realized as 1/4W for 1.6×0.8mm(0603) size.

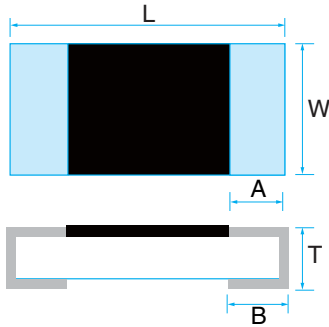
RoHS compliant

Completely lead free



## SPECIFICATIONS

### Mechanical



Dimension (Inch Size)	RP1005 (0402)		RP1608 (0603) RPH1608	RP2012 (0805)
	Single side structure	Double sides structure $R \leq 0.16\Omega$		
L	1.0±0.05		1.6±0.20	2.0±0.2
W	0.5±0.05		0.8±0.10	1.25±0.2
A	0.15±0.10		0.2±0.15	0.4±0.2
B	0.25±0.10	0.15±0.10	0.25±0.20	0.4±0.2
T	0.35±0.10	0.35±0.15/-0.10	0.45±0.10	0.4±0.1

(unit : mm)

### Electrical

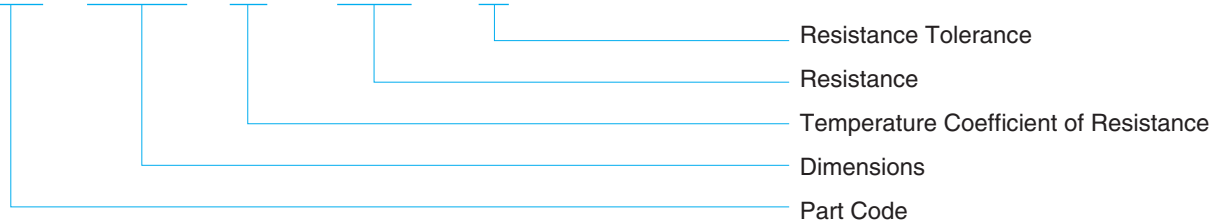
Type	RP1005	RP1608	RPH1608 <b>NEW</b>	RP2012	
Power	1/6W	1/5W	1/4W	1/3W	
Tolerance %(code)	±1 (F), ±2 (G), ±5 (J)	±1 (F), ±2 (G), ±5 (J)	±1 (F), ±2 (G), ±5 (J)	±1 (F), ±2 (G), ±5 (J)	
Resistance Range (Ω)	0.1~47	0.1~68	0.01~0.082	0.1~10	11~100
TCR ppm /°C(code)	0 ~+200 (S)	0 ~+200 (S)	0 ~+350 (T)	0 ~+350 (T)	0 ~+200 (S)
Resistance Value	E-24	E-24	E-12	E-24	
Max Operating Voltage for an element	$\sqrt{P \cdot R}$	$\sqrt{P \cdot R}$		$\sqrt{P \cdot R}$	
Operating Temp. Rating	-40~125°C	-40~125°C		-40~125°C	
Package	10,000pcs/reel	5,000pcs/reel	5,000pcs/reel	5,000pcs/reel	

- Please contact us for specific resistance to surge voltage.
- Please contact us for 0.1Ω or lower(TCR 0 - +350ppm/°C) resistance value in RP1005,RP1608,RP2012.



## PART NUMBER

**RP 1608 S - 102 - F**



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