



# Metal thin film chip resistors (precision)

## RR series

### Features

- Precision chip resistors excellent in resistance tolerance, TCR, frequency performance, noise characteristics, and linearity.
- \* This product is not currently recommended for use in new design systems. Production may be discontinued in the near future.

### Applications

- Consumer electronics that requires precision resistors
- All purpose resistors in any area of electronics

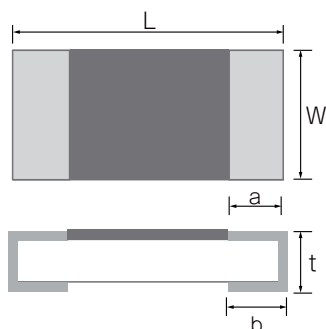
## ◆Part numbering system

Series code	<b>RR 0816 P - 102 - D - (M) - (***)</b>			only given to 3 digit coders for RR0816 E-96 series
Size: RR0510, RR0816, RR1220,				
Temperature coefficient of resistance				
Nominal Resistance RR0510, RR0816, RR1220 E-24: 3 digit, RR0510, RR0816, RR1220 E-96: 4 digit,			Letter M is added for RR1220 E-96 series 4digit codes	Resistance tolerance

## ◆Electrical Specification

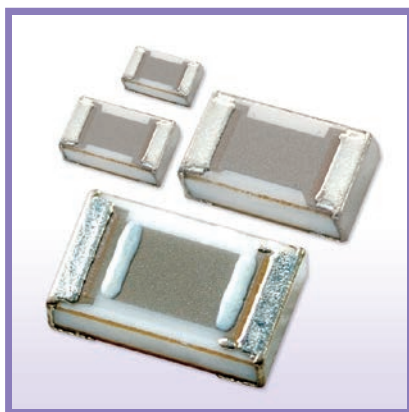
Type	Power ratings	Temperature coefficient of resistance (ppm/°C)	Resistance range(Ω) Resistance tolerance			Maximum voltage	Resistance value series	Operating temperature	Packaging quantity
			±0.1% (B)	±0.5% (D)	±1% (F)				
RR0510	1/16W	±25 (P)	—	100≤R≤100k	—	25V	E-24, E-96	-55°C ~ 125°C	10,000pcs
		±100 (R)		10≤R<100					
RR0816	1/16W	±25 (P)	—	100≤R≤360k	—	75V	E-24, E-96	-55°C ~ 125°C	5,000pcs
		±50 (Q)		10≤R<100					
RR1220	1/10W	±25 (P)	—	100≤R≤1M	—	100V	E-24, E-96	-55°C ~ 125°C	5,000pcs
		±50 (Q)		10≤R<100					

## ◆Dimensions



Type	Size (inch)	L	W	a	b	t
RR0510	0402	1.00±0.05	0.50±0.05	0.20±0.10	0.25±0.05	0.35±0.05
RR0816	0603	1.60±0.20	0.80±0.20	0.30±0.20	0.30±0.20	0.40±0.10
RR1220	0805	2.00±0.20	1.25±0.20	0.40±0.20	0.40±0.20	0.40±0.10

(unit : mm)



# Metal thin film trimmable chip resistors

■ RT series

AEC-Q200 Compliant

## Features

- Patented trimming method (Patent# 1921853) guarantees precision trimming, post trimming stability and short trimming time.
- Available as small as 0.3mm x 0.6mm

## Applications

- Sensor circuits that require accuracy (e.g. automotive electronics)
- PA module of mobile phone
- Devices that requires anti-vibration stability (e.g. microphone)

Thin film surface mount resistors

RT series



## ◆ Part numbering system

**RT 0816 P - 102 - M**

Series code

Size: RT0603, RT0510, RT0816, RT1220

Temperature coefficient of resistance

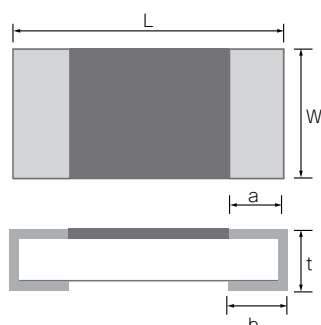
Resistance tolerance

Nominal resistance value

## ◆ Electrical Specification

Type	Power ratings	Temperature coefficient of resistance (ppm/°C)	Initial resistance value (Ω)				Initial resistance value tolerance (%)	Maximum voltage	Operating temperature	Packaging quantity
			Targetted resistance value (Ω)							
RT0603	1/20W	±25(P)	150	330	-	-	±20(M)	15V	-55°C ~ 125°C	15,000pcs
			1.0k	1.9k	-	-				
		±100(R)	1.5k	-	-	-				
			10k	-	-	-				
RT0510	1/16W	±25(P)	100	270	-	-		25V		10,000pcs
			820	2.1k	-	-				
		±100(R)	1.5k	-	-	-				
			10k	-	-	-				
RT0816	1/16W	±25(P)	100	330	1.0k	-		75V		5,000pcs
			2.7k	8.0k	8.8k	-				
		±100(R)	-	3.3k	10k	--				
			-	37k	40k	-				
RT1220	1/10W	±25(P)	100	330	1.0k	-	100V	5,000pcs		
			8.2k	15k	15k	-				
		±50(Q)	33	-	-	-				
			4.7k	-	-	-				
			±100(R)	3.3k	10k	33k			100k	
				100k	120k	120k			220k	

## ◆ Dimensions



Type	Size (inch)	L	W	a	b	t
RT0603	0201	0.60±0.05	0.30±0.03	0.12±0.05	0.15±0.05	0.25±0.03
RT0510	0402	1.00±0.07	0.50±0.07	0.20±0.10	0.25±0.10	0.35±0.05
RT0816	0603	1.60±0.20	0.80±0.20	0.30±0.20	0.30±0.20	0.40±0.10
RT1220	0805	2.00±0.20	1.25±0.20	0.40±0.20	0.40±0.20	0.40±0.10

(unit : mm)