



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

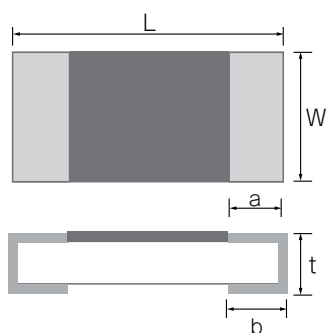
Part numbering system

Series code	RR 0816 P - 102 - D - (M) - (***)					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

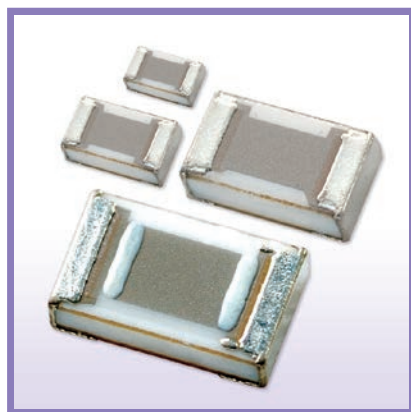
Type	Power ratings	Temperature coefficient of resistance	Resistance range(Ω) Resistance tolerance			Maximum voltage	Resistance value series	Operating temperature	Packaging quantity
		(ppm/°C)	±0.1% (B)	±0.5% (D)	±1% (F)				
RR0510	1/16W	±25(P)	—	100≤R≤100k	—	25V	E-24, E-96	-55°C ~ 125°C	10,000pcs
		±100(R)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

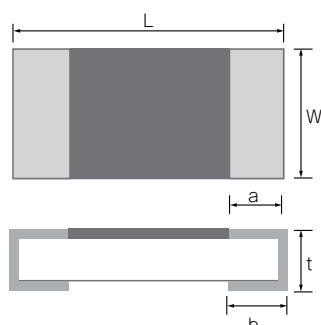
Resistance tolerance

Nominal resistance value

◆ Electrical Specification

Type	Power ratings	Temperature coefficient of resistance	Initial resistance value (Ω)				Initial resistance value tolerance	Maximum voltage	Operating temperature	Packaging quantity		
		(ppm/°C)	Targetted resistance value (Ω)				(%)					
RT0603	1/20W	±25(P)	150	330	-	-	±20(M)	15V	-55℃ ~ 125℃	15,000pcs		
			1.0k	1.9k	-	-						
		±100(R)	1.5k	-	-	-		25V		10,000pcs		
			10k	-	-	-						
RT0510	1/16W	±25(P)	100	270	-	-		75V		5,000pcs		
			820	2.1k	-	-						
		±100(R)	1.5k	-	-	-					100V	5,000pcs
			10k	-	-	-						
RT0816	1/16W	±25(P)	100	330	1.0k	-		100V		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)