



**THE DATASHEET OF
RR0510P-222-D**



Metal thin film chip resistors (precision)

RR series

Features

- Precision chip resistors excellent in resistance tolerance, TCR, frequency performance, noise characteristics, and linearity.

Applications

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

Thin film surface mount resistors



RR series

◆ Part numbering system

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

Series code

Size: RR0306, RR0510,
RR0816, RR1220,

Temperature coefficient of resistance

Nominal Resistance RR0306, RR0510, RR0816, RR1220 E-24: 3 digit,
RR0306, RR0510, RR0816, RR1220 E-96: 4 digit,

only given to 3 digit coders
for RR0816 E-96 series

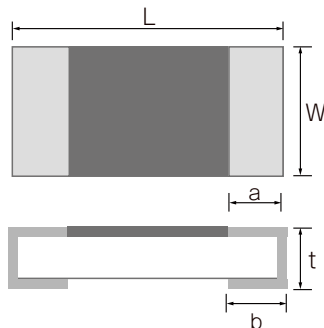
Letter M is added for RR1220 E-96 series 4digit codes

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) | | | | |
| RR0306 | 1/20W | ±25(P) | 33≤R≤22k | | | 15V | E-24 | -55°C ~ 125°C | 5,000pcs |
| | | ±100(R) | — | — | 10≤R≤30 | | | | |
| 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 |
|--------|-------------|-----------|-----------|-----------|-----------|-----------|
| RR0306 | 0201 | 0.60±0.05 | 0.30±0.05 | 0.12±0.05 | 0.12±0.05 | 0.23±0.03 |
| 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)

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