



# 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

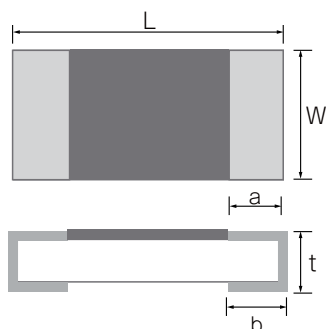
**RR 0816 P - 102 - D - (M) - (\*\*\*)**

|  |    |      |   |     |   |     |   |
|--|----|------|---|-----|---|-----|---|
| Series code  | RR | 0816 | P | 102 | D | (M) | (***)   |
| Size: RR0510, RR0816, RR1220,  |    |      |   |     |   |     | only given to 3 digit coders for RR0816 E-96 series   |
| 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)