

RX21-Series

Coated Wire Wound Resistors

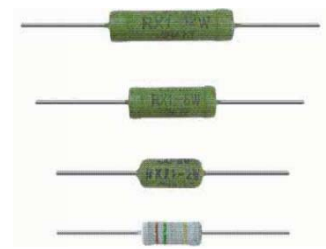
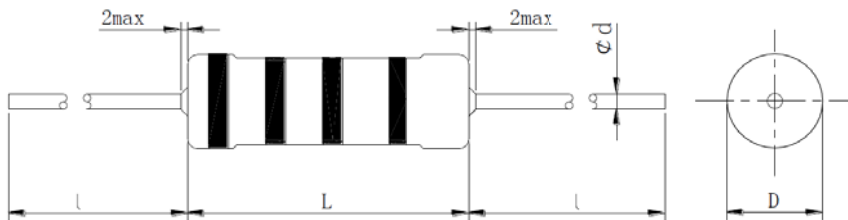
Sizes: 0.25W, 0.5W, 1W, 2W, 4W, 8W, 10W, 12W

Features:

- Low noise
- Excellent linearity
- High temperature resistant
- Power rating up to 12 W
- Grey or green coating, color or character marking



Dimensions:



| Type | Resistance Values | Dimensions (mm) | | | |
|-------|-------------------|------------------|------------------|-----------------|----------------------|
| | | L _{max} | D _{max} | l ^{±3} | d |
| 0.25W | 0.1R – 100R | 7.0 | 2.5 | 27 / 32 | 0.5 ^{±0.05} |
| 0.5W | 0.1R – 200R | 10.5 | 3.9 | 25 / 31 | 0.6 ^{±0.05} |
| 1W | 0.1R – 500R | 14.0 | 5.5 | 25 / 30 | 0.6 ^{±0.05} |
| 2W | 1R0 – 3k3 | 17.0 | 6.5 | 32 | 0.8 ^{±0.05} |
| 4W | 1R0 – 8k3 | 26.0 | 9.0 | 28 | 0.8 ^{±0.05} |
| 8W | 1R0 – 27k | 34.0 | 10.0 | 28 | 1.0 ^{±0.05} |
| 10W | 1R0 – 33k | 40.0 | 10.0 | 28 | 1.0 ^{±0.05} |
| 12W | 1R0 – 39k | 48.0 | 10.0 | 28 | 1.0 ^{±0.05} |

Packaging:

Bulk in plastic bags or Box

Ordering data:

Type – Power - Value – Tolerance – TCR

Example: RX21-0.5W 10R ±5% TCR250

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Technical data – general:

| Parameter | Specification |
|---|---|
| Tolerances | 5% (J) 10% (K) |
| TCR (ppm/K) | ≥ 10R 250 ppm/K 5R ... 10R 500 ppm/K ≤ 5R no request |
| Temperature range | -55°C to +155°C |
| Climatic category to EN 60068-1 | 55/155/21 |
| Voltage rating / Max. operating voltage | $U = \sqrt{P \cdot R}$ |
| STOL voltage | $U = \sqrt{10 \cdot P \cdot R}$ $t \leq 5s$ |

| Long term stability | Specification | Δ R |
|------------------------------|---|-------------------|
| Load Life | 1000h @ 70°C | < 5% |
| STOL | $U = \sqrt{10 \cdot P \cdot R} / 5s$ | < 2% |
| Climatic Load | Dry heat / wet heat / cold / low pressure (16h@155°C / 24h@55°C, RH93% / 2h@-55°C / 1h@8.5kPa) | < 5% |
| Temperature Cycle | -55°C ... 155°C (30 min, 5 cycles) | < 1% |
| Resistance to soldering heat | 260±2°C, 10±1s | < 1% |
| Terminal strength | Tensile force: 10N | < 1% |
| Vibrations | 6h @ 98 m/s ² (10Hz – 500 Hz) | < 1% |
| Solderability | 235±2°C, 2±0.5s | min. 95% covering |

Derating:

