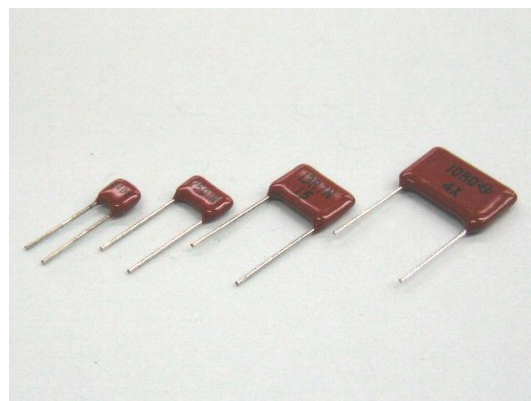


RADIAL LEADS METAL FILM RESISTORS RP-84, RP-44, RP-24, RP-14 EB



Features and Applications

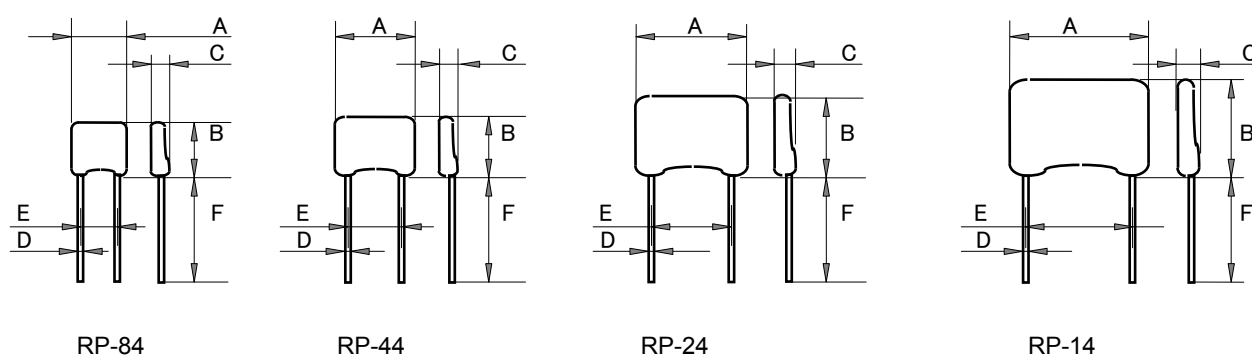
Radial leaded, long life thin film resistors by the Ni-Cr alloy materials on a high heat conduction alumina substrate with sputtering process. Lead terminal pitches are 2.5mm, 5.0mm, 7.5mm and 10.0mm.

Standardized TCR 25ppm/deg C - tolerance $\pm 0.1\%$ (E-B) - resistance values E96+ and E24+.

Rated power is 1/8W, 1/4W, 1/2W, 1W and prepared straight leads specifications, bulk package style only.

Applications include such industrial high reliability electronics as the electric power generation and distribution control, the high-speed train control, communications, industrial power supplies, industrial equipments, semiconductor tests, measurements, medical electronics and professional audio systems.

Dimensions (mm)



| Type | A | B | C | D | E | F |
|-------|---------|--------|--------|----------|----------------|------------|
| RP-84 | 5.0max | 5.0max | 2.5max | 0.5 dia. | 2.5 \pm 0.5 | 10 \pm 2 |
| RP-44 | 7.5max | 5.5max | 2.5max | 0.5 dia. | 5.0 \pm 0.5 | 10 \pm 2 |
| RP-24 | 10.0max | 7.5max | 2.5max | 0.5 dia. | 7.5 \pm 0.5 | 10 \pm 2 |
| RP-14 | 14.0max | 8.5max | 2.5max | 0.5 dia. | 10.0 \pm 0.5 | 10 \pm 2 |

Specifications and Performances

| Type | RP-84 | RP-44 | RP-24 | RP-14 |
|--------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Lead Pitch | 2.5mm | 5.0mm | 7.5mm | 10.0mm |
| Rating | 1/8W | 1/4W | 1/2W | 1W |
| Resistance | 10-33K | 10-180K | 10-750K | 10-750K |
| Nominal Value | E24+, E96+ | E24+, E96+ | E24+, E96+ | E24+, E96+ |
| TCR(\pm) | 25ppm(E) | 25ppm(E) | 25ppm(E) | 25ppm(E) |
| Tolerance(\pm) | 0.1%(B) | 0.1%(B) | 0.1%(B) | 0.1%(B) |
| Color Coded | NA | NA | NA | NA |
| Lead Formed | NA | NA | NA | NA |
| Tape Package | NA | NA | NA | NA |
| Working Voltages | 250V or $\sqrt{\text{PR}}$ | 300V or $\sqrt{\text{PR}}$ | 350V or $\sqrt{\text{PR}}$ | 500V or $\sqrt{\text{PR}}$ |
| Rated Amb. Temp. | 70°C | 70°C | 70°C | 70°C |
| Operating Temp. | -55 to +155°C | -55 to +155°C | -55 to +155°C | -55 to +155°C |

RADIAL LEADS METAL FILM RESISTORS **RP-84, RP-44, RP-24, RP-14 EB**

Performance

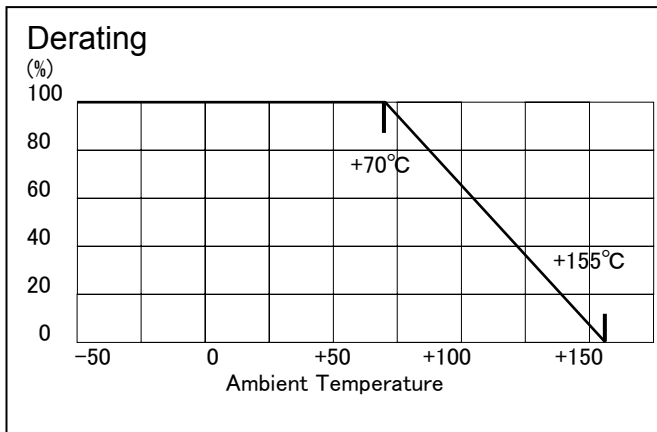
| | EB (25ppm, 0.1%) | Test Condition |
|-----------------------|------------------|---|
| Short Time Overload | ±0.10% | 2.5 times rated power, 5 seconds. |
| Load Life | ±0.10% | 70 °C, 90min., ON, 30min., OFF, 1000hours |
| Humidity | ±0.25% | 40 °C,90-95%RH,90min., ON,30min.,OFF, 1000 hours. |
| Temperature Cycle | ±0.10% | -55 °C, 30min., +155 °C, 30 min., 20 cycles. |
| Soldering Heat | ±0.10% | 4mm portion, 350 °C, 3 seconds, dipping. |
| Withstanding Volt. | ±0.10% | Old JIS C 5202 5.7, Metal brush 500V-60sec. |
| Terminal Strength | ±0.10% | |
| Insulation Resistance | >10,000MΩ | Old JIS C 5202 5.6, Metal solid |

Ordering Information

| Type | TCR | Resistance | Tolerance | Code | Note |
|-------|------------|------------|-----------|------|-----------|
| RP-24 | E | 10kohm | B | Z00 | RoHS-Bulk |
| RP-84 | E(25ppm/C) | E96+ | B(0.1%) | Z00 | RoHS-bulk |
| RP-44 | | E24+ | | | |
| RP-24 | | | | | |
| RP-14 | | | | | |

捺印表示 Marking Stamp on Resistors

| Type | RP-84ExxxB | RP-44ExxxB | RP-24ExxxB | RP-14ExxxB |
|------------|------------|------------|------------|------------|
| Resistance | E24+, E96+ | E24+, E96+ | E24+, E96+ | E24+, E96+ |
| TCR | ±25ppm | ±25ppm | ±25ppm | ±25ppm |
| Tolerance | ±0.1% | ±0.1% | ±0.1% | ±0.1% |
| Marking | 9092 | 9292 | 9092 51 | 9092 51 |



Bulk Pack Specification, Type Z00

100pcs in a plastic pack (PE) with zipper, and 20 plastic bags are put in a larger pack more. a paper label is attached to each pack. (2,000/bag)

Resistance Values, E24+

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1.0 | 1.1 | 1.2 | 1.3 | 1.5 | 1.6 | 1.8 | 2.0 | 2.2 | 2.4 | 2.5 | 2.7 | 3.0 |
| 3.3 | 3.6 | 3.9 | 4.3 | 4.7 | 5.0 | 5.1 | 5.6 | 6.2 | 6.8 | 7.5 | 8.2 | 9.1 |

Resistance Values, E96+

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.00 | 1.21 | 1.47 | 1.78 | 2.15 | 2.61 | 3.16 | 3.83 | 4.64 | 5.62 | 6.81 | 8.25 |
| 1.02 | 1.24 | 1.50 | 1.82 | 2.21 | 2.67 | 3.24 | 3.92 | 4.75 | 5.76 | 6.98 | 8.45 |
| 1.05 | 1.27 | 1.54 | 1.87 | 2.26 | 2.74 | 3.32 | 4.02 | 4.87 | 5.90 | 7.15 | 8.66 |
| 1.07 | 1.30 | 1.58 | 1.91 | 2.32 | 2.80 | 3.40 | 4.12 | 4.99 | 6.04 | 7.32 | 8.87 |
| 1.10 | 1.33 | 1.62 | 1.96 | 2.37 | 2.87 | 3.48 | 4.22 | 5.11 | 6.19 | 7.50 | 9.09 |
| 1.13 | 1.37 | 1.65 | 2.00 | 2.43 | 2.94 | 3.57 | 4.32 | 5.23 | 6.34 | 7.68 | 9.31 |
| 1.15 | 1.40 | 1.69 | 2.05 | 2.49 | 3.01 | 3.65 | 4.42 | 5.36 | 6.49 | 7.87 | 9.53 |
| 1.18 | 1.43 | 1.74 | 2.10 | 2.55 | 3.09 | 3.74 | 4.53 | 5.49 | 6.65 | 8.06 | 9.76 |