

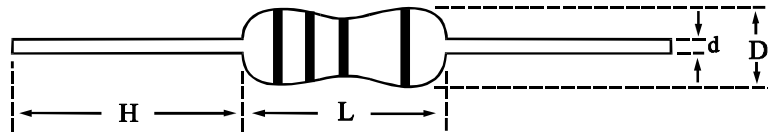
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| 公司名稱 Company Name | 高銘電子股份有限公司 K-OHM ELECTRIC CO; LTD. |
| 品名 Product Name | 碳膜固定電阻 Carbon Film Fixed Resistors |

● PRODUCT FEATURES :

1. LOWEST COST , PROMPT DELIVERY
2. EXCELNENT LONG TERM STABILITY
3. WIDE RESISTANCE RANGE 0Ω22~100MΩ
4. POWER RATINGS

● POWER RATINGS DIMENSIONS

- ◎ Standard Type: 1/16W ~2W
- ◎ Miniature Type: 1/4Ws~3Ws



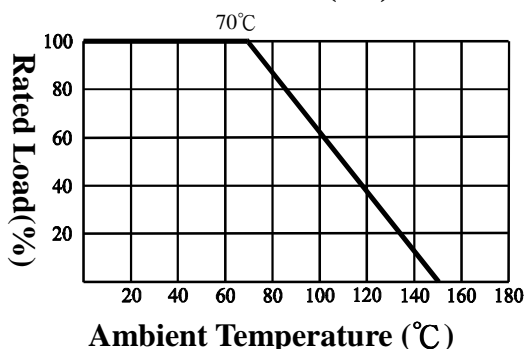
| STYLE | | DIMENSIONS(mm) | | | | Comment |
|--------|-----------|--------------------------------------|---------|--------|-----------|--|
| Normal | Miniature | L | D | H | d | |
| RD18 | RD14S | 3.3± ^{0.4} / _{0.2} | 1.8±0.3 | 29±2.0 | 0.45±0.03 | ★ Normal Series: Light Brown Color Epoxy Coating |
| RD18 | RD14S | 3.3± ^{0.7} / _{0.2} | 1.8±0.3 | 29±2.0 | 0.45±0.03 | |
| RD14 | RD12S | 6.3±0.5 | 2.3±0.3 | 28±2.0 | 0.55±0.03 | |
| RD12 | RD100S | 9.0±0.5 | 3.2±0.5 | 26±2.0 | 0.65±0.03 | ★ Miniature Series: Pink Color Epoxy Coating |
| RD100 | RD200S | 11.5±1.0 | 4.5±0.5 | 35±2.0 | 0.78±0.03 | |
| RD200 | RD300S | 15.5±1.0 | 5.0±0.5 | 32±2.0 | 0.78±0.03 | |

● ELECTRICAL CHARACTERISTICS

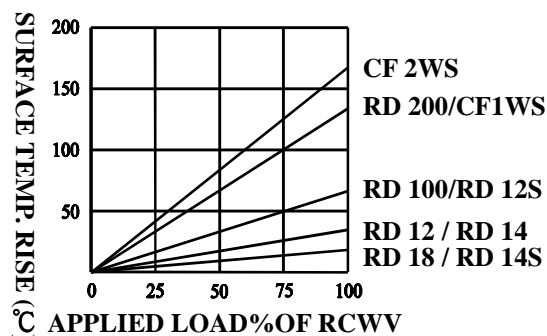
| Power rating at 70°C | 1/8W | 1/4WS | 1/4W | 1/2WS | 1/2W | 1WS | 1W | 2WS | 2W | 3WS |
|------------------------------|----------------------|-------|------|-------|------|--------|-------|--------|-------|--------|
| STYLE | RD18 | RD14S | RD14 | RD12S | RD12 | RD100S | RD100 | RD200S | RD200 | RD300S |
| Operating Temp. Range | -55°C to +155°C | | | | | | | | | |
| Max. Working Voltage | 150V | 200V | 250V | 300V | 350V | 400V | 450V | 500V | 500V | 500V |
| Max. Overload Voltage | 300V | 400V | 500V | 500V | 700V | 800V | 1000V | 1000V | 1000V | 1000V |
| Dielectric Withstanding volt | 300V | 400V | 500V | 500V | 700V | 800V | 1000V | 1000V | 1000V | 1000V |
| Value Range , ±5% | 1Ω~10MΩ , E24 series | | | | | | | | | |

Value Range for standard resistance , below or over this resistance on request.

● POWER GRAPH(°C)



● HOT-SPOT TEMPERATURE(%)



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● **TEMPERATURE COEFFICIENT (T.C.R.)**

| STYLE | Power rating at 70°C | Max. Value of Temp. Coefficient ppm/°C | | |
|-------|-----------------------------------|--|---------------|----------------|
| | | under 100KΩ | 100KΩ to 1MΩ | 1MΩ to 4M7Ω |
| RD | 1W.2W.2WS. 3WS | ±350 ppm | -0ppm -500ppm | -0ppm -1000ppm |
| | 1/6W.1/4W.1/4WS 1/2W.1/2WS.1WS | +350ppm- 500ppm | -0ppm-700ppm | -0ppm-1500ppm |

● **ENVIRONMENTAL CHARACTERISTICS.**

| PERFORMANCE TEST | TEST METHOD | APPRAISE |
|---------------------------------|--|---|
| SHORT TIME OVERLOAD | JIS-C-5202 5.5 2.5 times RCWV for 5 seconds | ±(0.75%+0.05Ω) |
| TEMPERATURE COEFFICIENT(T.C.R.) | Resistance value at room Temperature and room Temperature+100°C | page |
| DIELECTRIC WITHSTANDING VOLTAGE | JIS-C5202 5.7 In V-Block for 60 seconds | By Type |
| PULSE OVERLOAD | JIS-C5202 5.8 4 times RCWV for 10000cycles(1sec.on , 25secs.off) | ±(1%+0.05Ω) |
| INSULATION RESISTANCE | JIS-C5202 5.6 In V-Block | > 10000MΩ |
| LOAD LIFE | JIS-C5202 7.10 70°C at RCWV for 1000hrs.(1.5hrs. on , 0.5hrs.off) | ±(3%+0.05Ω) |
| LOAD LIFE IN HUMIDITY | JIS-C5202 7.9 40±2°C 90~95%RH at RCWV for 1000hrs. (1.5hrs. on , 0.5hrs.off) | Less than 100KΩ ±3% 100KΩ or more ±5% |
| SOLDER ABILITY | JIS-C5202 6.5 260±5°C for 2±0.5 seconds | 95% min. coverage |
| RESISTANCE TO SOLVENT | JIS-C5202 6.9 Trichroethane for 1 min. with ultrasonic | No deterioration of coatings and markings |
| TERMINAL STRENGTH | Direct load for 10 sec. In the direction off the terminal leads. | Tensile: ≥ 2.5kg |

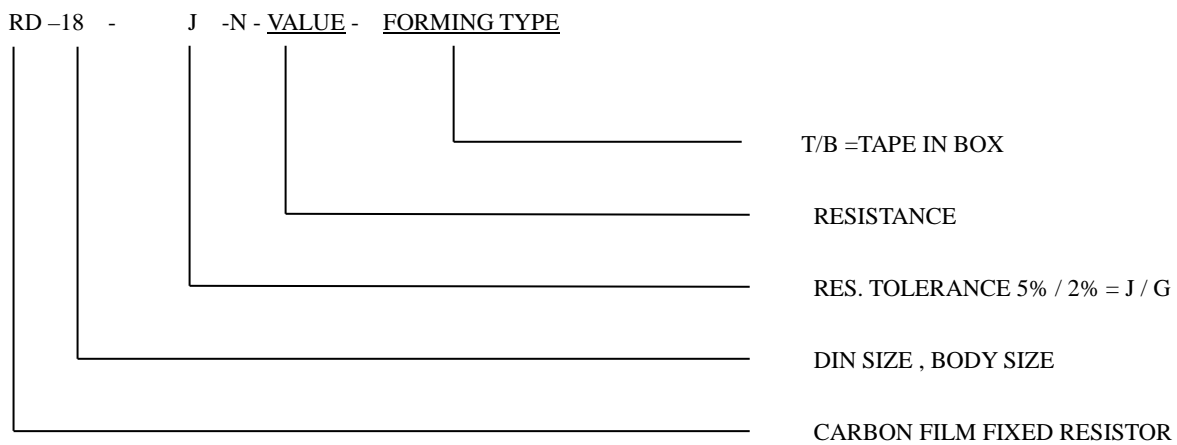
★ Rated continuous Working Voltage (RCWV) = $\sqrt{\text{POWER.RATING.} * \text{RESISTANCE.VALUE}}$

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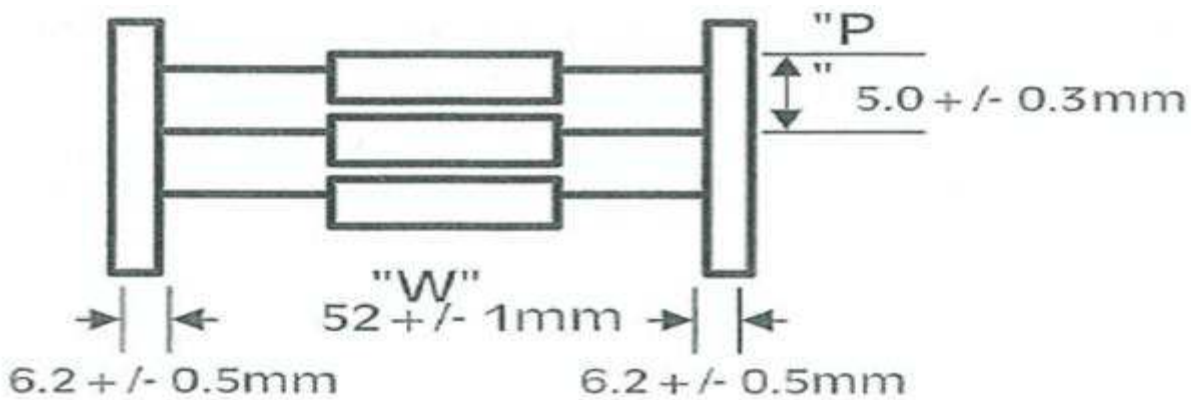
● Resistor body color

1. Normal size-----Khaki
2. Small size-----Pink

● PART NUMBER:



● TAPE DIMENSION OF RESISTOR:



Tape Dimension