



### 特點

1. 適用於需要保護的各種電路基板及設計。
2. 不燃性絕緣塗裝，可耐溶劑清洗及高溫。
3. 溫度係數低(± 300ppm/°C以下)。
4. 保險絲熔斷時間一致。

### Features

1. It is suitable for protecting circuit boards.
2. Noncombustible insulating coating; "Solvent" proof and resistant to high temperature.
3. Low temperature coefficient.
4. Uniform in fusing time.

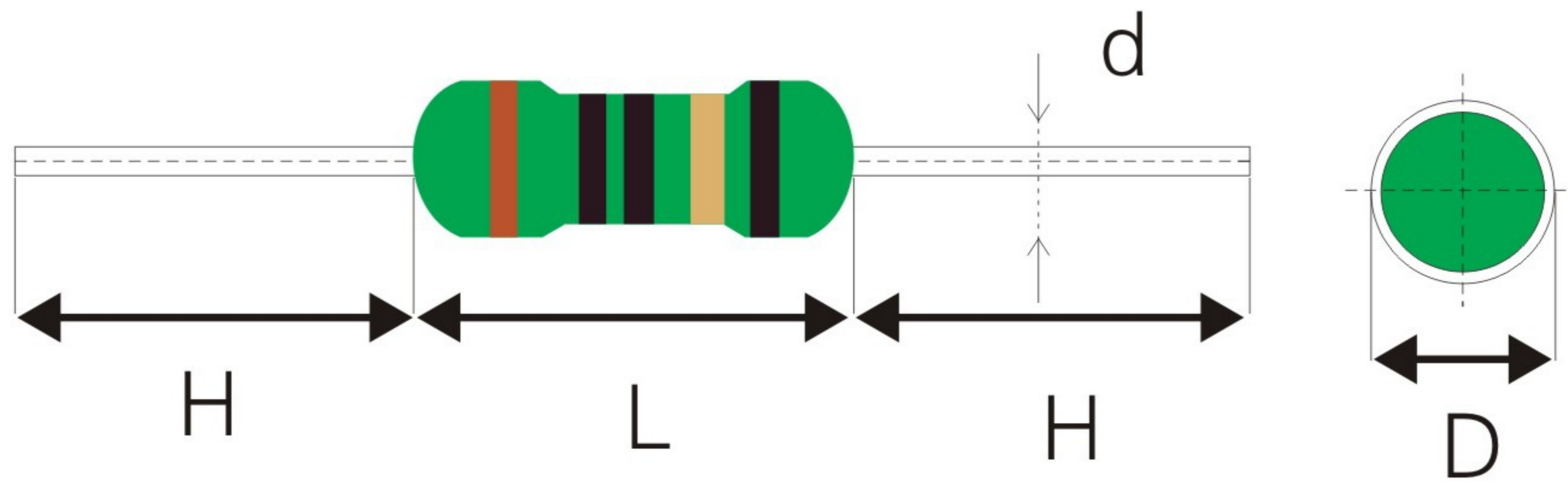
### 電氣及機械特性 ELECTRICAL AND MECHANICAL PERFORMANCE

| 特性 Characteristics                  | 規格值 Standards  | 試驗方法 Test Methods  |
|-------------------------------------|--|--|
| 阻值容許誤差 Resistance Tolerance         | ± 5% (J) or ± 2% (G)   | -  |
| 溫度係數 Resistance Temp. Coeff.        | ± 300 ppm/°C,  | -55°C ~ 200°C  |
| 額定負載 Power Rating Load              | Surface temp. 275°C Max.<br>最高表面溫度 275°C, ΔR/R ≤ ± 3%                          | Rated voltage for 30 minutes<br>額定電壓/30分鐘                                      |
| 短時間過負載 Short Time Overload          | ± 2%   | 2.5 times of rated wattage for 5 seconds.<br>2.5 倍額定功率/5秒                      |
| 耐電壓 Dielectric Withstanding Voltage | No evidence of mechanical damage<br>or insulation breakdown.<br>無機械性能損壞及絕緣擊穿現象 | Applying suitable voltage listed on<br>Dimensions for one minute.<br>施加規定電壓1分鐘 |
| 絕緣電阻 Insulation Resistance          | 1,000MΩ  | DC 100V or 500V megger   |
| 熔斷特性 Fusing Characteristics         | Fusing time is within 60 seconds.<br>熔斷時間 < 60秒。                               | 16 times of rated wattage  |
| 焊錫性 Solder-ability                  | Minimum 95% coverage<br>焊錫面積 ≥ 95%   | 235 ± 5°C for 2 seconds  |
| 浸錫耐熱性 Resistance to Soldering Heat  | No evidence of mechanical damage.<br>無機械性能損壞現象, ΔR/R ≤ ± 1%                    | 270 ± 5°C for 10 ± 1 seconds<br>350 ± 10°C for 3.5 ± 0.5 seconds               |

### 耐環境特性 ENVIRONMENTAL CHARACTERISTICS

| 特性 Characteristics            | 規格值 Standards | 試驗方法 Test Methods   |
|-------------------------------|---------------|---|
| 溫度週率 Temp. Cycle              | ΔR/R ≤ ± 1%   | -55°C (30 min.) → Room Temp. (3 min.)<br>→ +200°C (30 min.)<br>→ Room Temp. (3 min.) / (5 cycles) |
| 負載壽命 Load Life                | ΔR/R ≤ ± 5%   | Rated power load 90 minutes ON<br>30 minutes OFF<br>70°C 1000 hours                               |
| 耐濕壽命 Moisture-proof Load Life | ΔR/R ≤ ± 5%   | Rated power load 90 minutes ON<br>30 minutes OFF<br>40°C 95% RH 1000 hours                        |
| 不燃性 Nonflammability           | not flamed    | 16 times of rated wattage for 5 min   |

尺寸 Dimensions



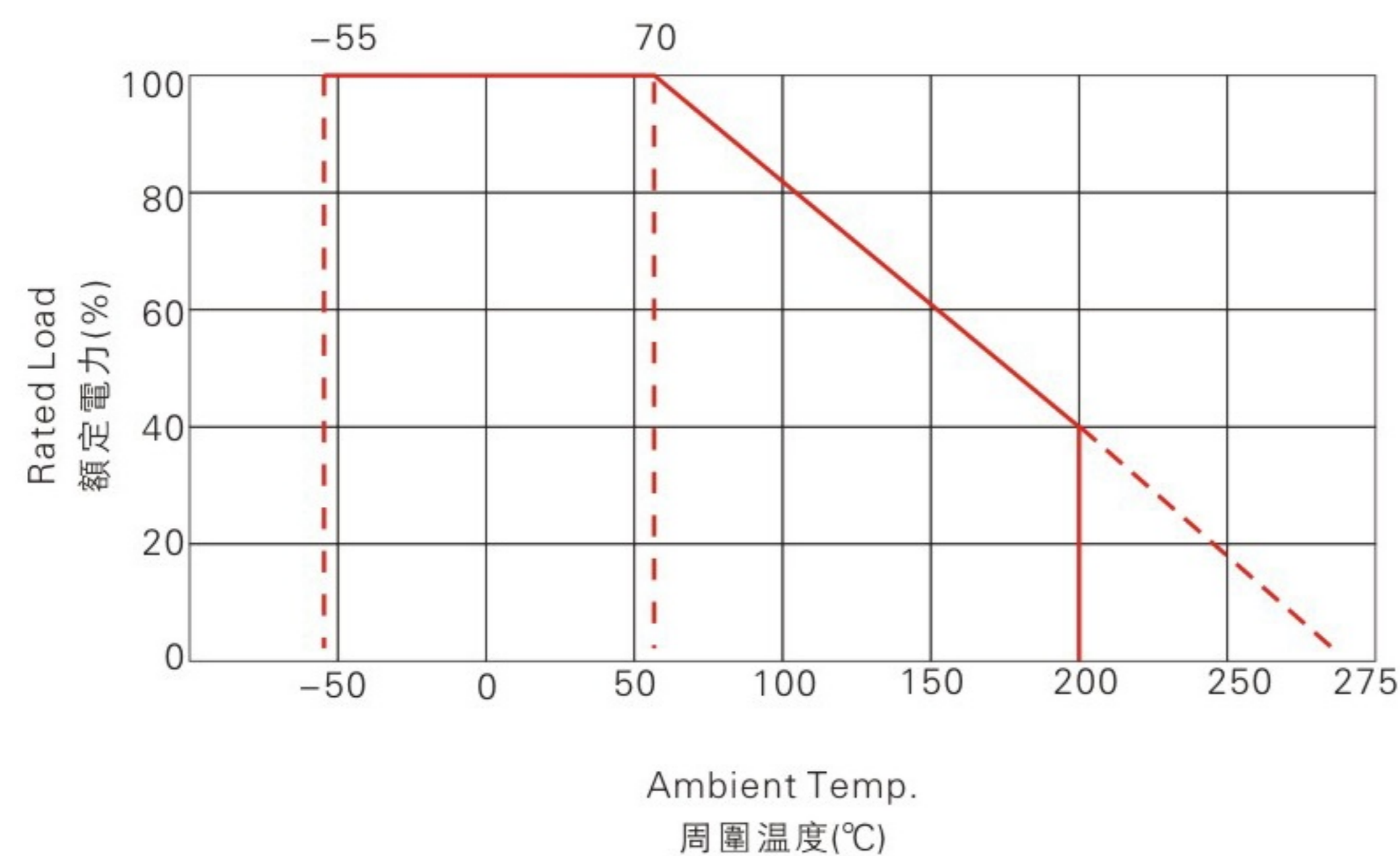
Unit: mm

| Rated Wattage | D ± 1 | L ± 1 | H ± 3 | d ± 0.1 | Resistance Range(Ω) | Dielectric Withstanding Voltage |
|---------------|-------|-------|-------|---------|---------------------|---------------------------------|
| 1W            | 4.0   | 9     | 28    | 0.65    | 0.1~20              | 350V                            |
| 2W            | 5.0   | 11    | 28    | 0.8     | 0.1~100             | 500V                            |
| 3W            | 5.5   | 13    | 38    | 0.8     | 0.1~200             | 500V                            |
| 5W            | 6.5   | 19    | 38    | 0.8     | 0.1~200             | 500V                            |

Note: 1. Fusing time can also be consulted between buyers and the manufacturer before producing.  
2. The resistance value will be as high as 100 times the original value after fusing.

電力輕減曲綫 Derating Curve

For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve below.



表面溫度上升曲綫 Surface Temperature Rise

