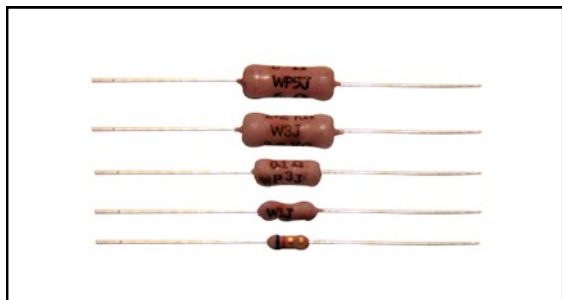


WIRE RESISTOR

RWU 繞線電阻器
WIRE WOUND RESISTOR (Standard Type)

RWS 小型繞線電阻器
WIRE WOUND RESISTOR (Small Type)

RWP 超小型繞線電阻器
WIRE WOUND RESISTOR (Super Small Type)



- 塗料顏色 : Coating Color
- 標準品 : Standard Type (Gray)
- 小型品 : Small Type (Pink)
- 超小型品 : Super Small Type (Pink)
- 標示 : Marking
- 色碼 : Color Code (RWP1W)
- 文字 : Alphanumeric (1/2W~10W)

特性 Feature

- ◎使用不燃性塗料,具不燃與絕緣之安全特性(UL94 V-0)
- ◎ Flameproof and insulating coating designed to assure safe usage by special non-flammable silicon-base. (Equivalent to UL94 V-0)
- ◎小型化能高密度插裝
- ◎ Small size are good for high density application.
- ◎長期穩定性佳
- ◎ Stable long service life.
- ◎產品符合歐盟 RoHS 要求
- ◎ Products meet EU-RoHS.

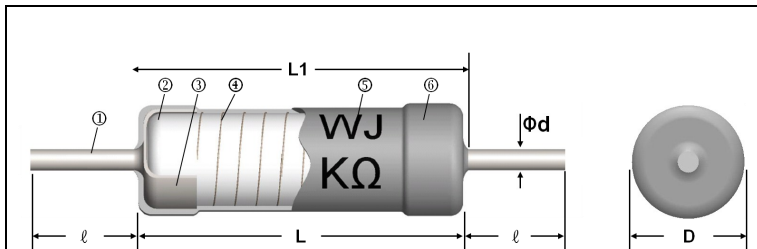
產品認證 Approvals awarded

- RWP1W Series UL1412 File No.E257690

額定 Ratings

| Rated Power (W) | 阻值範圍 Resistance Range (Ω) | | 最高使用電壓 Max. Working Voltage | 耐電壓 Dielectric Withstanding Voltage | | 溫度係數 T.C.R. | 包裝 Taping/Ammo,Forming/Bulk pack (pcs) | | | | | | | | |
|-----------------|---------------------------|------------|-----------------------------|-------------------------------------|-----------|--|--|------|------|------|------|------|------|------|---|
| | J±5% (E24) | | | 250V | (UL)1000V | | A26 | A52 | A64 | FT | YT | L | C | M | D |
| P1 | 0.1 ~ 100 | | 500V | 250V | (UL)1000V | ≤ 1Ω : ± 500ppm/°C > 1Ω : ± 300ppm/°C | 5000 | 2500 | - | - | - | - | - | - | - |
| 1/2,S1,P2 | 0.05 ~ 150 | | | 350V | - | | 2000 | 2000 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | |
| 1,S2,P3 | 0.05 ~ 330 | | | 350V | - | | 1000 | 2000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| 2,S3,P5 | 0.05 ~ 1K | | | 500V | - | | 500 | 500 | - | 1000 | 1000 | 1000 | 1000 | 1000 | |
| 3,S5,7 | | | | 500V | - | | - | - | - | 500 | 500 | - | 500 | | |
| 7,10 | 0.05 ~ 15K | 0.05 ~ 27K | | 500V | - | | - | - | - | - | - | - | - | - | |

結構圖 Construction



| | | | | | |
|---|-----|--------------|---|------|-----------------------|
| 1 | 端子線 | Lead wire | 4 | 繞線 | Wire wound |
| 2 | 瓷棒 | Ceramic base | 5 | 標示 | Marking or color code |
| 3 | 鐵帽 | Cap | 6 | 絕緣塗料 | Insulation coat |

外型尺寸 Dimensions

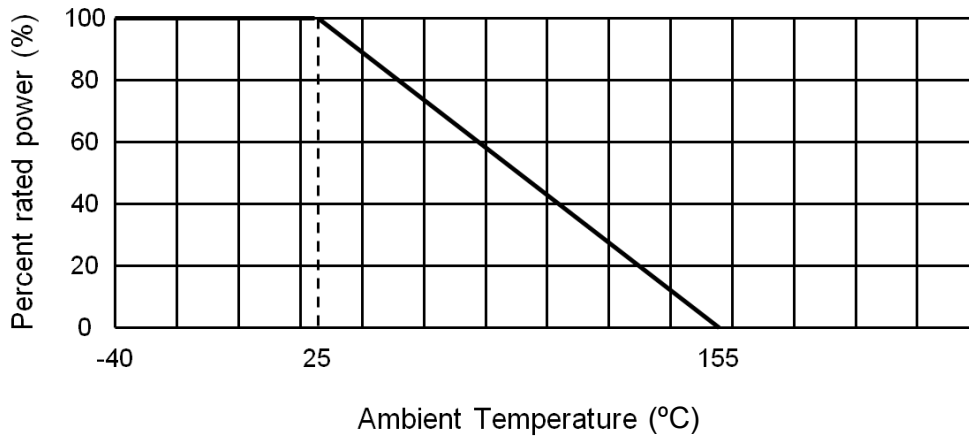
| Rated Power (W) | Dimensions (mm) | | | | | Weight (g) (1000pcs) |
|-----------------|-----------------|---------|---------|--------------|------|----------------------|
| | L | L1 Max. | D | Ød | l | |
| P1 | 6±0.5 | 7 | 2.4±0.1 | 0.6±0.05 | 28±3 | 210 |
| P1 (UL) | 9.5±1 | 12 | 4.5±1 | 0.7±0.05 | 28±3 | 510 |
| 1/2,S1,P2 | 9±0.5 | 11 | 3.3±0.5 | 0.6/0.8±0.05 | 28±3 | 285 |
| 1,S2,P3 | 12±1 | 15 | 4.5±0.5 | 0.8±0.05 | 38±3 | 728 |
| 2,S3,P5 | 16±1 | 18 | 5.5±0.5 | | | 1380 |
| 3,S5,7 | 25±1 | 28 | 8.5±0.5 | 0.8±0.05 | 38±3 | 3768 |
| 10 | 44MAX | 46MAX | 8MAX | | | 6200 |

料號編碼 Type composition 例 Example

| RW | U | 12 | J | 1000 | A520 | NH |
|---------|----------------|------------------|---------------|-------------------|-----------------|-----------------|
| 型名 Type | 品名 Size | 額定功率 Rated Power | 誤差值 Tolerance | 電阻值(Ω) Resistance | 二次加工 Forming | 端子線 Lead Wire |
| | U: Standard | 12:1/2W | F±1% | R100=0.1 | See table below | 熱鍍線 Heat plated |
| | S: Small | 01:1W | G±2% | 1R00=1 | | |
| | P: Super small | 02:2W | J±5% | 10R0=10 | | |
| | | 03:3W | | 1000=100 | | |
| | | 05:5W | | 1001=1K | | |
| | | 07:7W | | 1002=10K | | |

■ 額定溫度下降曲線圖 Derating curve

例 Example



■ 二次加工對應表 Taping & Forming Matrix

| Rated Power (W) | Taping | | | Radial Taping | | L Forming | | | | C Forming | | | | F Forming | | | | M Forming | | | D Forming | | | |
|-----------------|--------|-----|-----|---------------|----|-----------|-------|-----|-----|-----------|-----|-----|-----|-----------|-----|-----|-----|-----------|-----|-----|-----------|-----|-----|-----|
| | A26 | A52 | A64 | FT | YT | L10 | L12.5 | L15 | L20 | C12.5 | C15 | C20 | C30 | FA5 | FB5 | FC5 | FD5 | M12.5 | M15 | M20 | D12.5 | D15 | D20 | D30 |
| P1 | ○ | — | — | ○ | — | ○ | — | — | — | — | — | — | — | ○ | ○ | ○ | ○ | — | — | — | — | — | — | — |
| 1/2,S1,P2 | — | ○ | — | ○ | ○ | — | ○ | — | — | ○ | — | — | — | ○ | ○ | ○ | ○ | ○ | — | — | ○ | — | — | — |
| 1,S2,P3 | — | ○ | — | ○ | ○ | — | — | ○ | — | — | ○ | — | — | ○ | ○ | ○ | ○ | — | ○ | — | — | ○ | — | — |
| 2,S3,P5 | — | ○ | ○ | — | ○ | — | — | — | ○ | — | — | ○ | — | ○ | ○ | ○ | ○ | — | — | ○ | — | — | ○ | — |
| 3,S5 | — | — | — | — | — | — | — | — | — | — | — | ○ | — | — | — | — | — | — | — | — | — | — | — | ○ |
| 7,10 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

■ 性能 Performance

| 試驗項目 Test Items | 規格值 Performance Requirements | 試驗方法 Test Methods |
|--------------------------------------|---|--|
| 電阻值 Resistance | 規定的誤差值內 Within specified tolerance | 測量點從端蓋 10mm Measuring points are 10mm from the end cap |
| 溫度係數 T.C.R. | 規定值內 Within specified T.C.R. | 室溫+100°C Room temperature +100°C |
| 短時間過負荷 Short time overload | ±(1%+0.05Ω) | 6.25 倍額定功率，5 秒 6.25 times the rated power for 5 seconds |
| 負荷壽命 Load life | ±(5%+0.1Ω) | Rated voltage at 70°C for 1,000 hours 1.5hr ON / 0.5hr OFF Cycles |
| 耐濕負荷壽命 Load life in humidity | ±(5%+0.1Ω) | 10% rate power load 40°C, 95% RH for 1,000 hours; 1.5h ON / 0.5h OFF cycle |
| 耐濕性 Moisture resistance | ±(1%+0.05Ω) | 40°C, 95% RH, 240 小時 40°C, 95% RH for 240 hours |
| 溫度循環 Temperature cycle | ±(1%+0.05Ω) | 5 cycles for -25°C (30min) : room temp. (30min) ~ +85°C (30min) room temp. (30min) |
| 焊錫效果 Soldeability | 95 % (min) coverage | Temp. of solder 245°C ± 5°C duration of immersion 3s±0.5s |
| 焊錫耐熱 Resistance to soldering heat | ±(1%+0.05Ω) | 260°C ± 5°C for 10 seconds (焊錫槽) 350°C ± 10°C for 3.5 seconds (手焊錫) |
| 絕緣電阻 Insulation resistance | >1,000MΩ | 500V 絕緣測試 1 分鐘 500V insulation test 1min. |
| 不燃性 Flameproof | 無燃燒現象 No evidence of flaming or arcing | AC voltage of 2,4,8,16,32 times the power rating for 1min. (V ≤ 4 times max. working voltage) |