

# DISCHARGE PATH RESISTOR

**RMU** 金屬釉電阻器  
METAL GLAZE RESISTOR (Standard Type)

**RMS** 小型金屬釉電阻器  
METAL GLAZE RESISTOR (Small Type)

**RMH** 大型金屬釉電阻器  
METAL GLAZE RESISTOR (Large-scale Type)



塗裝顏色：Coating Color

標準品：Standard Type (1/6W, 1/4W Dark blue, other pink)

小型品：Small Type (≥ 1/2W Pink)

大型品：Large-scale Type (Pink)

標示：Marking

色碼：Color Code (≤ S1/2W)

文字：Alphanumeric (1/2W~S3W、H1W)

## 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)

◎產品符合歐盟 RoHS 要求

◎ Products meet EU-RoHS.

## 產品認證 Approvals awarded

● UL 1676 & c-UL (CSA C22.2 No.1-98)File No.E220321

1/2,1,2 Watt,680K to 10M 125V : 1/2,1,2 Watt,960K to 12M 250V

● EN 60065 (VDE 0860) : 2011-10 Clause 14.1a、14.1b

Ausweis-Nr : 40030403 (1/4,1/2,1 Watt)100K to 100M

Ausweis-Nr : 40030404 (1/2,1,2 Watt)100K to 100M

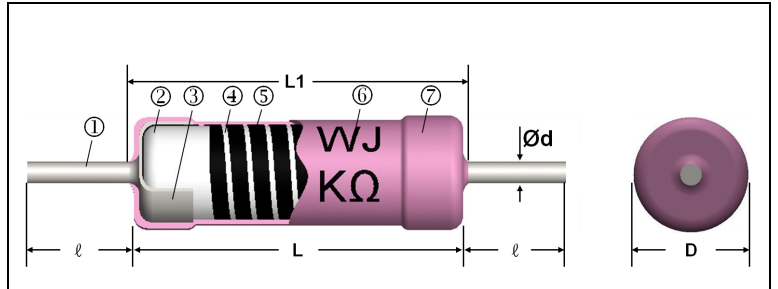
● SEMKO&CB.1/4,1/2,1,2 Watt,100K to 100M. Reference No.814991

1/4,1/2,1,2 Watt,100K to 100M

## 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)								
	F±1% (E96)	G±2% (E24)	J±5% (E24)				A26	A52	A64	FT	YT	L	C	M	D
1/6,S1/4	10Ω ~ < 100M			300V	300V	F±1%: ±100ppm/°C G±2%: ±200ppm/°C J±5%: ±200ppm/°C	5000	-	-	-	-	-	-	-	
1/4,S1/2				1600V			-	2500	-	2000	-	2500	2500	2500	2500
1/2,S1				3500V			-	2000	-	2000	2000	2500	2500	2500	2500
1,S2				7000V			-	1000	-	1000	1000	1000	1000	1000	1000
2,S3,H1				10000V			-	500	500	-	1000	1000	1000	1000	1000

## 結構圖 Construction



1	端子線	Lead wire	5	金屬釉皮膜	Metal glaze film
2	瓷棒	Ceramic base	6	標示	Marking or color code
3	鐵帽	Cap			
4	切割線	Helical cutting groove	7	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	
1/6,S1/4	3.3±0.3	4	1.8±0.2	0.45±0.05	28±2	120
1/4,S1/2	6.0±0.3	7	2.4±0.1	0.6±0.05	28±2	218
1/2,S1	9±0.5	11	3.3±0.5	0.6/0.8±0.05	28±3	320
1,S2	12±1	15	4.5±0.5	0.8±0.05	38±3	780
2,S3,H1	16±1	18	5.5±0.5			1450

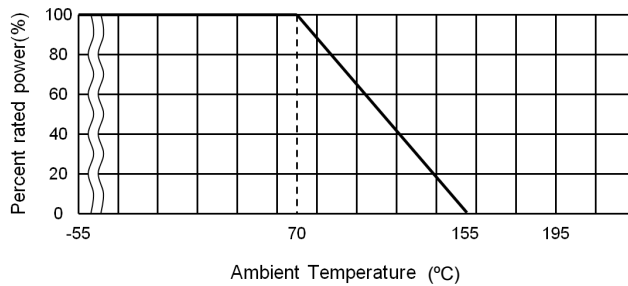
## 料號編碼 Type composition

例 Example

R	U	14	J	1005	A520	NL
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	16:1/6W	F±1%	10R0=10	See table	電鍍線 Electro plated
	S: Small	14:1/4W	G±2%	1000=100	below	
	H: Large-scale	12:1/2W	J±5%	1001=1K		
		01:1W		1002=10K		
		02:2W		1003=100K		
		03:3W		1004=1M		
				1005=10M		

### ■ 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	FA5	FB5	FC5	FD5	M12.5	M15	M20	D12.5	D15	D20	
1/6,S1/4	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4,S1/2	-	○	-	○	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2,S1	-	○	-	○	○	-	○	-	-	○	-	-	○	○	○	○	○	-	-	○	-	-	-
1,S2	-	○	-	○	○	-	-	○	-	-	○	-	○	○	○	○	-	○	-	-	○	-	-
2,S3,H1	-	○	○	-	○	-	-	-	○	-	-	○	○	○	○	○	-	-	○	-	-	-	○

### ■ 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	±(1.5%+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)
斷續過負荷 Intermittent overload	±(5%+0.1Ω)	Applicable more than 100Ω ; Rated voltage ×3 1s ON / 25s OFF , 10,000 cycles
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)
脈衝測試 Pulse withstanding voltage	±20% 	The following discharge cycle is repeated in the circuit of the left fig. 2.5 sec. ON 2.5 sec. OFF 50 cycles. With following DC pulse test voltage. Pulse voltage: 1/6W,S1/4W : (3KV). ≥ 1/4W < 100K:(3KV)//100 K~620K:(5KV) > 620 K:(10KV) Capacitor : UL-0.01 μF Non-UL 0.001μF