

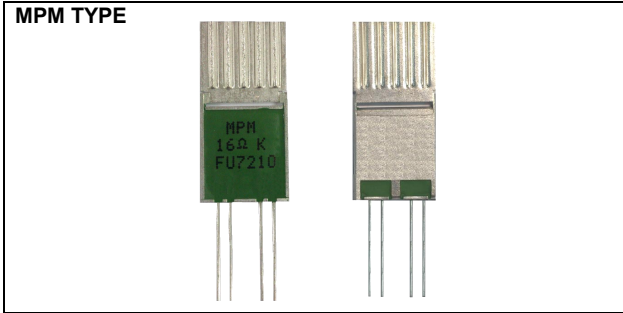
METAL PLATE CEMENT RESISTOR

MPM

金屬板電阻器

METAL PLATE CEMENT RESISTOR (MPM Type)

MPM TYPE



本體顏色 : Body color 綠色 : Green
 白色 : White 標示 : Marking
 塗料顏色 : Coating color 文字 : Alphanumeric

特性 Feature

- ◎ 不燃與絕緣之安全設計
- ◎ Compact type with safety design of Non-flammability and insulation.
- ◎ 低阻值耐突波佳
- ◎ Low resistance and resilient to surge current.
- ◎ 無電感
- ◎ Non-inductance.
- ◎ 產品符合歐盟 RoHS 要求
- ◎ Products meet EU-RoHS.

參考規格 Reference standards

- JIS C 5201-1

結構圖 Construction

MPM 4W

MPM 7W

1	端子線	Lead wire	5	金屬板	Metal board
2	金屬殼	Metal shell	6	捺印	Marking
3	電鍍層	Plating layer	7	絕緣塗料	Insulation coat
4	陶瓷板	Ceramic base			

外形尺寸 Dimensions

型名 Model	Dimensions (mm)						
	A	B	C	h	Ød	P1	P2
MPM 4W	18±0.5	15±1.0	2.0±0.5	15±3	0.60±0.05	5.5±0.5	9.5±0.5
MPM 5W	18±0.5	15±1.0	2.0±0.5	15±3	0.60±0.05	5.5±0.5	9.5±0.5
MPM 7W	32±1.0	15±1.0	2.0±0.5	16±3	0.60±0.05	5.0±0.5	9.5±0.5

Ød=0.5±0.05 (36Ω~100MΩ)

料號編碼 Type composition

例 Example

MPM	04	K	R010	S002	CP
型名 Type	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
	04:4W	F±1%	R010=0.01	S002 :	CP Wire
	05:5W	J±5%	R100=0.1	2Pin	
	07:7W	K±10%	1R00=1 10R0=10	S004 : 4Pin	

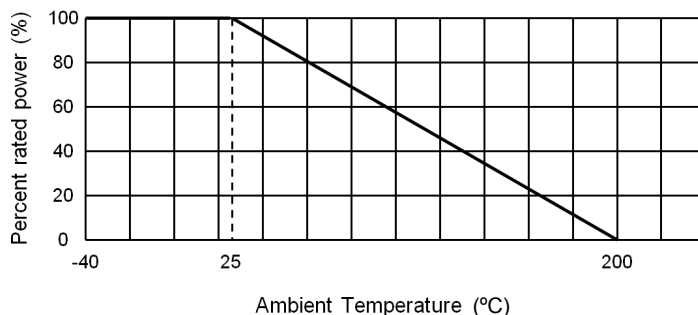
額定 Ratings

TYPE	Rated Power (W)	阻值範圍 Resistance Range(Ω)	誤差值 Tolerance	耐電壓 Dielectric Withstanding Voltage	溫度係數 T.C.R.	包裝 Pack (pcs)	
						Straight	Forming
MPM	4	0.01~100M	F±1% J±5% K±10%	500V	± 350ppm/°C	1200	---
	5	0.01~100M					
	7	0.01~100M					

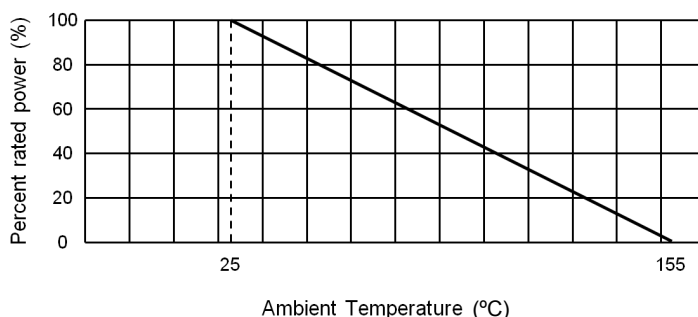
■ 額定溫度下降曲線圖 Derating curve

例 Example

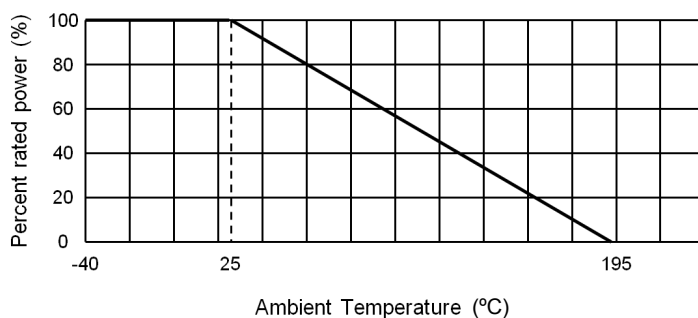
4W



5W



7W



■ 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	±(2%+0.1Ω)	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	±(2%+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	>10MΩ	500V 絕緣測試 1 分鐘 500V insulation test 1min.