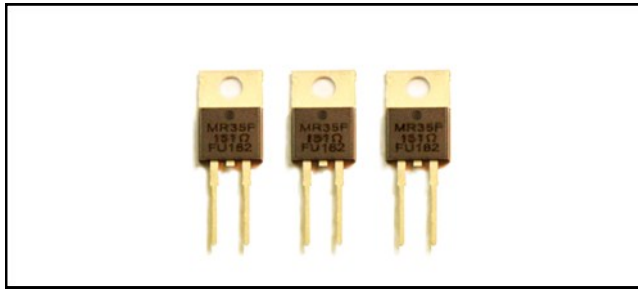


POWER CHIP RESISTOR

MR

模造电阻器

POWER CHIP RESISTOR (Standard Type)



外观颜色 : Body Color
 黑色 : Black
 标示 : Marking
 文字 : Alphanumeric

特性 Feature

- ◎高稳定性皮膜或金属板抵抗元素
- ◎ High stability film or metal plate resistance elements.
- ◎低感值. (<50nH).测试频率 100K Hz
- ◎ Low inductive. (<50nH). Test frequency 100K Hz.
- ◎提供 20W,30W,35W,50W
- ◎ Available in 20W,30W,35W,50W.
- ◎产品符合欧盟 RoHS 要求
- ◎ Products meet EU-RoHS.

参考规格 Reference standards

- MIL-STD-202 Method 204

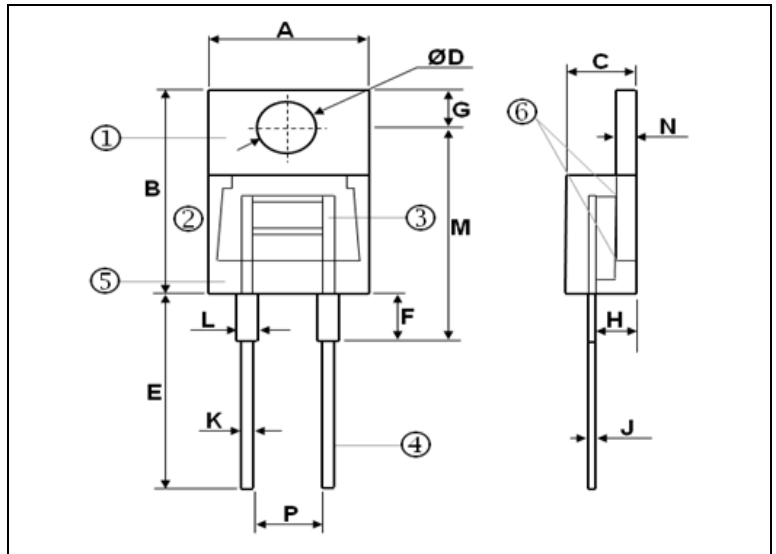
料号编码 Type composition 例 Example

MR	Q	BO	J	1000	S002	AL
型名 Type	品名 Size	额定功率 Rated power	误差值 Tolerance	电阻值(Ω) Resistance	二次加工 Forming	端脚 End Feet
	Square	B0:20W	F±1%	0R01=0.01	2 Pin	铝板 Aluminum
	Shape	C0:30W	J±5%	R100=0.1		
		C5:35W		1R00=1		
		E0:50W		10R0=10		
				1000=100		
				1001=1K		
				1002=10K		

额定 Ratings

Type	Power Rating 1(W)		Voltage Rating 4	Thermal Resistance	阻值范围 Resistance Range	误差值 Tolerances	温度系数 T.C.R.	包装 Strip (pcs)	
	Heatsink2	Free Air3							
MR-20	20W	2.00W	500V	5.9°C/W	0.01Ω~0.09Ω	±5%	±200ppm/°C	50	
					0.1Ω~51KΩ	±1%、±5%	±150ppm/°C		
MR-30	30W	2.25W		4.2°C/W	0.01Ω~0.09Ω	±5%	±200ppm/°C		
					0.1Ω~51KΩ	±1%、±5%	±150ppm/°C		
MR-35	35W	2.25W		3.3°C/W	3.3°C/W	0.01Ω~0.09Ω	±5%		±200ppm/°C
						0.1Ω~51KΩ	±1%、±5%		±150ppm/°C
MR-50	50W	2.50W		2.3°C/W	2.3°C/W	0.01Ω~0.09Ω	±5%		±200ppm/°C
						0.1Ω~51KΩ	±1%、±5%		±150ppm/°C

结构图 Construction



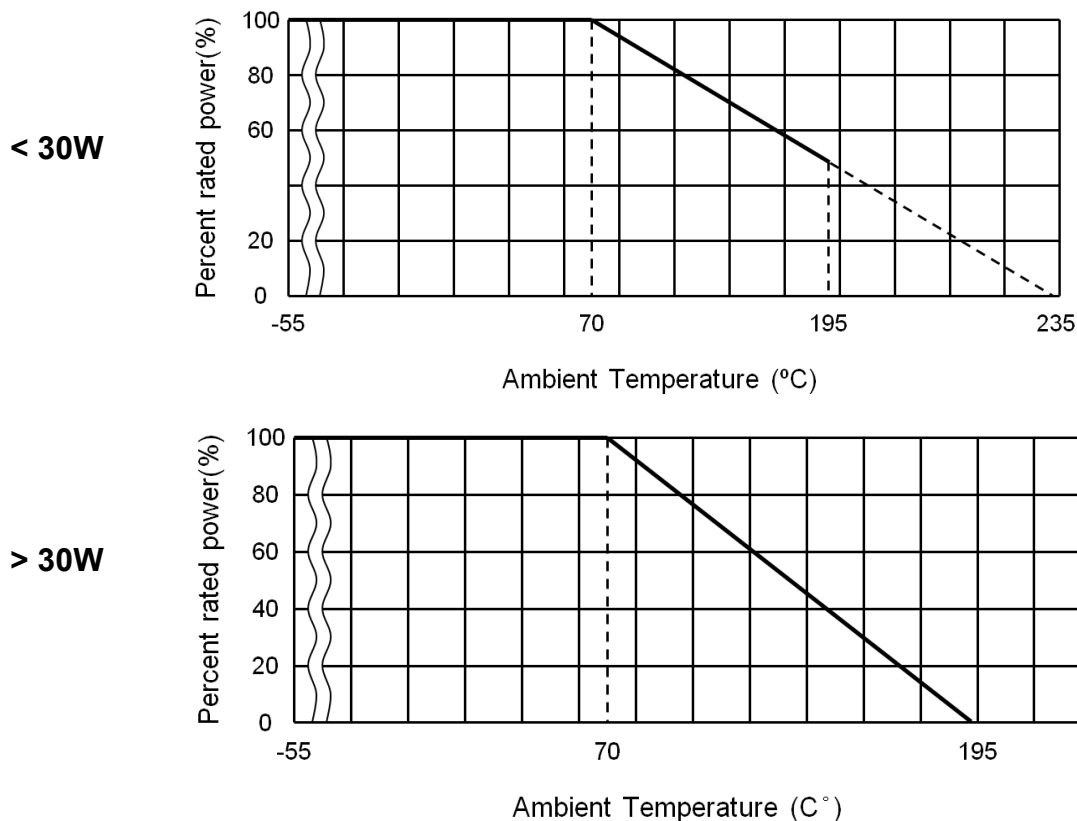
1	散热片	Flange	Aluminum alloy
2	基板	Substrate	Alumina 99%
3	阻抗材质	Resistance part	Resistance film or metal plate
4	引线	Lead terminal	Copper alloy (plated solder)
5	压模树脂	Molded resin	Non-flam ability rubber
6	接点	Junction part	Welding with high frequency

外型尺寸 Dimensions (mm)

Rated Power (W)	20	30	35	50
A	10.1±0.2			
B	15±0.2			
C	4.5±0.2			
ØD	3.6±0.1			
E	14.5±1.0			
F	4±0.5			
G	3±0.2			
H	2.75±0.2			
J	0.5±0.1			
K	0.75±0.1			
L	1.4±0.1			
M	16±0.1			
N	1.3±0.1			
P	5.08±0.1			

■ 额定温度下降曲线图 Derating curve

例 Example



■ 性能 Performance

试验项目 Test Items	规格值 Performance Requirements	试验方法 Test Methods
电阻值 Resistance	规定的误差值内 Within specified tolerance	测量点从端盖 10mm Measuring points are 10mm from the end cap
温度系数 T.C.R.	规定值内 Within specified T.C.R.	室温+100°C Room temperature +100°C
热冲击 Thermal Shock	±0.3%	Test temp. -55°C ~ +85°C Number of 5 cycles
负荷寿命 Load life	±1%	Rated voltage at 70°C for 1,000 hours 1.5hr ON / 0.5hr OFF Cycles
耐湿负荷寿命 Load life in humidity	±5%	10% rate power load 40°C, 95% RH for 1,000 hours; 1.5h ON / 0.5h OFF cycle
耐湿性 Moisture resistance	±1%	65°C, 90~95% RH, 240 小时 65°C, 90~95% RH for 240 hours
焊锡耐热 Resistance to soldering heat	±0.25%	Temp. of solder 350°C ± 5°C duration of immersion 3.5 s ± 0.5 s
焊锡效果 Solder ability	95 % (min) coverage	Temp. of solder 245°C ± 5°C duration of immersion 3 s ± 0.5 s
耐电压 Dielectric withstanding voltage	Flash over, burning, insulation damage Should not be observed	V-Block test voltage : DC 2,200V Duration time 60 sec.
绝缘电阻 Insulation resistance	>1,000MΩ	500V 绝缘测试 1 分钟 500V insulation test 1min.
振动试验 Vibration	±(0.25 % + 0.05%)	MIL-STD-202 Method 204 Condition D.