

Feature (特性)

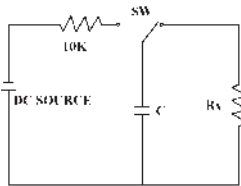
- Provide high stable performance against environment conditions & overload voltage
耐高压，稳定性强，抗湿热高温环境
- Can withstand High Surge Voltage
可承受高浪涌电压
- Width resistance range & low TCR
阻值范围宽，温度系数低



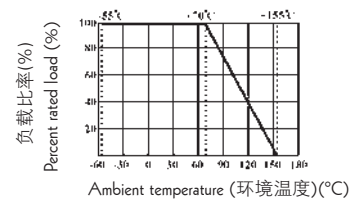
- 5 band color code for $\pm 5\%$ tolerance, and last band Black color for identification
公差 $\pm 5\%$ 有五道色码，最后一道以黑色标示

- Standard 5 band color code for $\pm 1\%$ tolerance
公差 $\pm 1\%$ 有五道色码

Surge Withstanding Voltage (承受浪涌电压)



Derating Curve (降功率曲线)



- Normal Size: the discharge cycle is repeated in above circuit: 2.5 seconds "ON", 2.5 seconds "OFF", 50 cycles, $C=0.001\mu f$
正常尺寸: 上图中充放电回路: 2.5秒"通", 2.5秒"断", 50次循环, 电容容值 $C=0.001\mu f$
- Small Size: the discharge cycle is repeated in above circuit: 2.5 seconds "ON", 2.5 seconds "OFF", 10 cycles, $C=0.01\mu f$
小型化产品: 上图中充放电回路: 2.5秒"通", 2.5秒"断", 10次循环, 电容容值 $C=0.01\mu f$
- The applied DC source voltage is shown as below table (电路中的直流电压如下表“承受浪涌电压”所述)

Specification (性能)

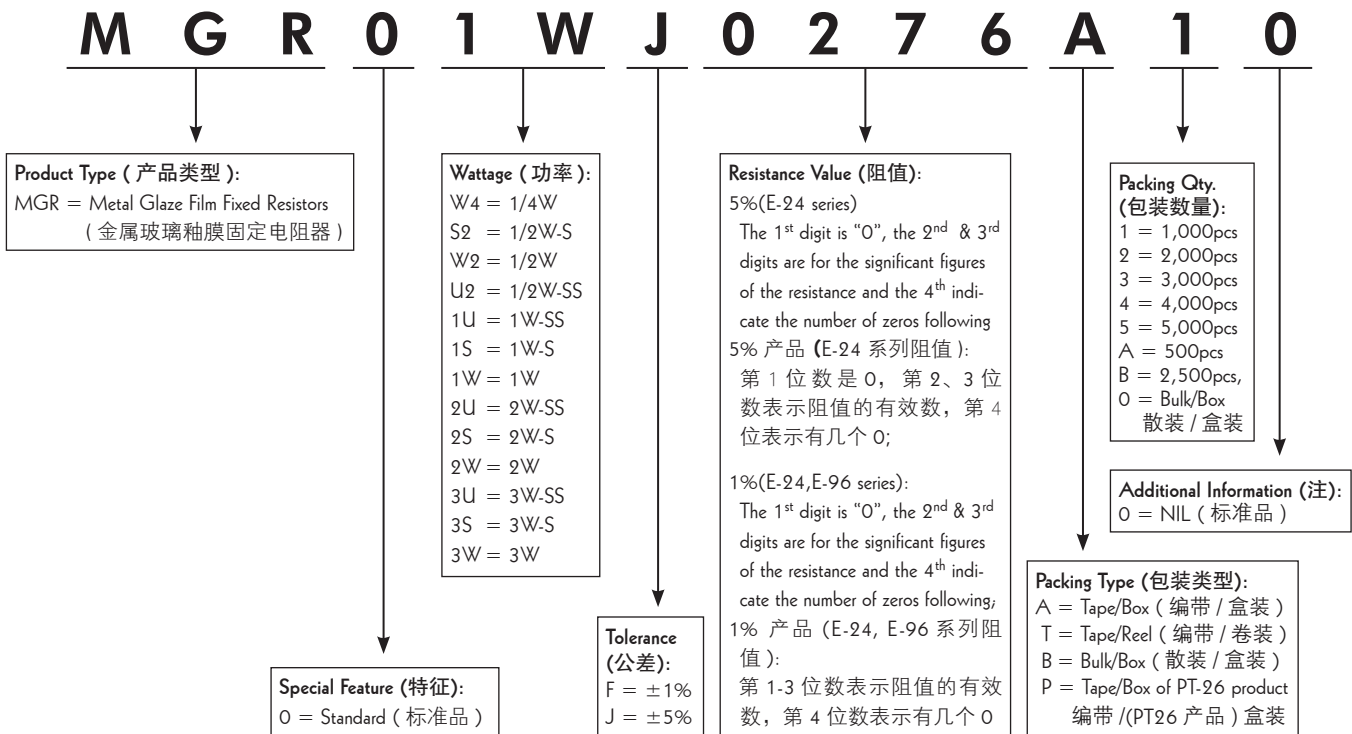
Part No. 料号	Type 型号	Power Rating 功率 70°C	Dimension(尺寸)(mm)				Max. Working Voltage 最大工作电压	Max. Overload Voltage 最大过负荷电压	Dielectric Withstanding Voltage 绝缘耐压	Surge Withstanding Voltage 浪涌电压	Resistance Range 阻值范围
			D	L	$d\pm 0.05$	$H\pm 3$					
Normal Size (正常尺寸)											
MGR 0W4	MGR 25	1/4W	2.2±0.5	6.5±1.0	0.54	28	500V	700V	500V	100K-100M: 10,000V	1K-100M ($\pm 5\%$, $\pm 10\%$)
MGR 0W2	MGR 50	1/2W	3.0±0.6	9.5±1.0	0.54	28	700V	1,000V	700V		
MGR 01W	MGR-100	1W	4.0±0.6	11.5±1.0	0.65	28	1,000V	1,400V	700V		
MGR 02W	MGR-200	2W	5.0±0.6	15.5±1.0	0.75	28	1,000V	1,400V	700V		
MGR 03W	MGR-300	3W	6.0±0.6	17.5±1.0	0.75	28	1,000V	1,400V	700V		100K-1M($\pm 1\%$)
Small Size & Ultra Small Size (小型化及超小型化尺寸)											
MGR0U2	MGR-50-SS	1/2W	2.2±0.5	6.5±1.0	0.54	28	500V	700V	500V	100K-1M:3,000V 1M1-6M2:4,000V $\geq 6M8$: 6,000V	1K-33M ($\pm 5\%$, $\pm 10\%$)
MGR0S2	MGR-50-S	1/2W	3.0±0.5	9.0±1.0	0.54	28	500V	700V	500V	100K-1M:3,000V 1M1-6M2:4,000V $\geq 6M8$: 6,000V	100K-1M ($\pm 1\%$)
MGR01U	MGR-100-SS	1W	3.5±0.6	9.5±1.0	0.54	28	700V	1,000V	700V	100K-1M:4,000V 1M1-6M2:5,000V $\geq 6M8$: 8,000V	
MGR01S	MGR-100-S	1W	3.5±0.6	9.5±1.0	0.60	28	700V	1,000V	700V	100K-1M:5,000V 1M1-6M2:6,000V $\geq 6M8$: 9,000V	1K-33M ($\pm 5\%$, $\pm 10\%$)
MGR02U	MGR-200-SS	2W	4.0±0.6	11.5±1.0	0.65	28	1,000V	1,400V	700V	100K-1M:5,000V 1M1-6M2:6,000V $\geq 6M8$: 9,000V	100K-1M ($\pm 1\%$)
MGR02S	MGR-200-S	2W	4.5±0.6	11.5±1.0	0.65	28	1,000V	1,400V	700V	100K-1M:8,000V 1M1-6M2:9,000V $\geq 6M8$: 10,000V	
MGR03U	MGR-300-SS	3W	4.5±0.6	11.5±1.0	0.75	28	1,000V	1,400V	700V	100K-1M:8,000V 1M1-6M2:9,000V $\geq 6M8$: 10,000V	
MGR03S	MGR-300-S	3W	5.0±0.6	15.5±1.0	0.75	28	1,000V	1,400V	700V		

Performance Specifications (性能)

Temperature coefficient	温度系数	$\leq \pm 200\text{PPM}/^\circ\text{C}$
Short-time overload	短时间过负荷	$\Delta R/R \leq \pm(1\%+0.05\Omega)$, with no evidence of mechanical damage (无可见机械损伤)
Dielectric withstanding voltage	绝缘耐压	No evidence of flashover, mechanical damage, arcing or insulation breakdown (无击穿、飞弧及可见机械损伤)
Pulse overload	脉冲过负荷	$\Delta R/R \leq \pm(2\%+0.05\Omega)$, with no evidence of mechanical damage (无可见机械损伤)
Terminal strength	端子强度	No evidence of mechanical damage (无可见机械损伤)
Soldering heat	耐焊接热	$\Delta R/R \leq \pm(1\%+0.05\Omega)$, with no evidence of mechanical damage (无可见机械损伤)
Solderability	可焊性	Min. 95% coverage (最少 95% 覆盖率)
Resistance to solvent	耐溶剂	No deterioration of protective coating and marking (包封层, 色码完整)
Temperature cycling	温度循环	$\Delta R/R \leq \pm(1\%+0.05\Omega)$, with no evidence of mechanical damage (无可见机械损伤)
Load life in humidity	湿度寿命	$\Delta R/R \leq \pm(5\%+0.05\Omega)$, with no evidence of mechanical damage (无可见机械损伤)
Load life	负载寿命	$\Delta R/R \leq \pm(5\%+0.05\Omega)$, with no evidence of mechanical damage (无可见机械损伤)

Ordering Procedure (Example: MGR 1W 5% 27MΩ T/B-1000)

订购方式 (例如: MGR 1W 5% 27MΩ T/B-1000)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Thick Film Resistors - Through Hole](#) category:

Click to view products by [Uniroyal](#) manufacturer:

Other Similar products are found below :

[M8340104K3300GCD03](#) [M8340105K3300GGD03](#) [M8340105K3922FGD03](#) [M8340107K2401GCD03](#) [M8340109K1002JCD03](#)

[M8340109K1003GCD03](#) [MP850-3.00-1%](#) [ARC3.11 2M J A](#) [M8340105K1003GCD03](#) [M8340105M2201GCD03](#) [M8340107M7501GCD03](#)

[M8340108K2051FCD03](#) [M8340108K7501GCD03](#) [M8340108M5100JGD03](#) [M8340109K1000GCD03](#) [MOX-GRD-001](#)

[M8340102M4701GBD04](#) [M8340102K1002GBD04](#) [M8340109K2002GGD03](#) [M8340108K2002FGD03](#) [OE1305](#) [MS-221-82R5](#) [MOX-](#)

[750231004DE](#) [MOX-4-127505J](#) [SM102034504FE](#) [MOX300002206FE](#) [MOX-400233004F](#) [MOX300001005BE](#) [SM104066008J](#) [MOX-](#)

[400262008PE](#) [MOX-400232506FE](#) [MOX-400234007FE](#) [MOX-400221006G](#) [MOX-750235006ME](#) [SM103032506FE](#) [SM202022005FE](#)

[MOX1125231002FE](#) [MOX-1-122504F](#) [MOX-400225003F](#) [MOX1125731008FE](#) [MOX-5-126002JE](#) [MS176-2.20M-1%](#) [MOX-830212453BE](#)

[TRHE01A270RJ2E](#) [TRHE01A560RJ2E](#) [TRHP01A200RF2E](#) [TRHP01A5001F2E](#) [MG715-2.40M-1%](#) [MS214-20.0K-1%](#) [MF0W4FF4702A50](#)