

RMK Series General Chip Fixed Resistor



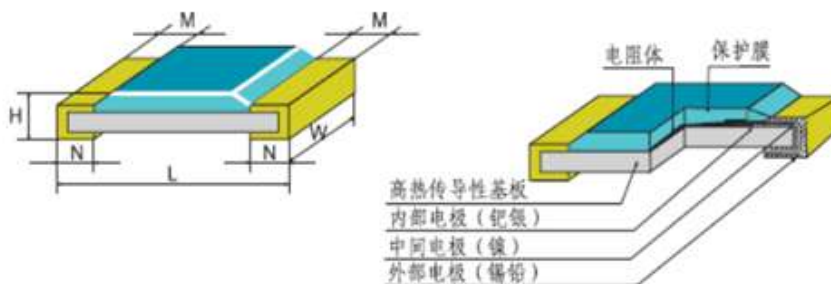
FEATURES

- Stable electrical capability, has high reliability
- Small size and light weight.
- According with ROHS standard.
- Supplied in tape on reel.

APPLICATIONS

- Navigator(GPS).PDA and setbox
- Mobile Phone and Telecom
- Meter
- Remote control and Security syte

SHAPE AND DIMENSIONS



Part Number	Dimensions (mm)				
	L	W	H	M	N
RMK1005	1.00±0.20	0.50±0.10	0.35±0.10	0.20±0.10	0.20±0.10
RMK1608	1.60±0.15	0.80±0.10	0.50±0.15	0.30±0.15	0.30±0.15
RMK2012	2.00±0.15	1.25±0.15	0.50±0.15	0.40±0.25	0.40±0.25
RMK3216	3.20±0.15	1.60±0.15	0.55±0.15	0.50±0.25	0.50±0.25
RMK3225	3.20±0.15	2.50±0.15	0.55±0.15	0.50±0.25	0.50±0.25
RMK5025	5.20±0.15	2.50±0.15	0.55±0.15	0.60±0.25	0.60±0.25
RMK6332	6.30±0.15	3.20±0.15	0.55±0.15	0.60±0.25	0.60±0.25

PRODUCT IDENTIFICATION

RMK1608 K C 101 F T

① ② ③ ④ ⑤ ⑥

- ① Product Code: Thick film chip fixed resistor, Length 长 (L) ×Width 宽 (W)
- ② Resistance Temperature Coefficient Code : K: ±100ppm/°C, W: ±200ppm/°C, L: ±250ppm/°C, U: ±400ppm/°C
- ③ Power Rating Series Code: C:Normal power series, S: Upgraded power series.
- ④ Normal Resistance(Ω): 100: 10; 101: 100 ; 103: 10000
- ⑤ Tolerance: F: ±0.1%; G: ±0.2%; J ±5% ; K ±10%
- ⑥ Package: B:by bulk T: Tape and Reel



Specifications subject to change without notice. Please check our website for latest information.

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SPECIFICATIONS

Type	Power Rating At 70°C	Limiting Element Voltage (V)	Max Overload Voltage(V)	Resistance Range(Ω)					Temperature coefficient
				±0.05%	±0.1%	±0.25%	±0.5%	±1%	
0402	1/16W	25	50	24.9-5K					±5
				10-12K					±10, ±15
				10-100K					±25, ±25
0603	1/16W,1/10W	50	100	24.9-15K					±5
				10-200K					±10, ±15
				10-332K					±25, ±25
0805	1/10W,1/8W	100	200	24.9-30K					±5
				4.7-330K					±10, ±15
				4.7-1M					±25, ±25
1206	1/8W,1/4W	150	300	24.9-50K					±5
				4.7-470K					±10, ±15
				4.7-1M					±25, ±25
1210 2010	1/4W,1/3W	150	300	24.9-50K					±5
				4.7-470K					±10, ±15
				4.7-1M					±25, ±25
2512	1/2W	150	300	24.9-50K					±5
				4.7-470K					±10, ±15
				4.7-1M,2-1M					±25, ±25



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● Characteristics

项目 Item	标准 Specifications	测试方法 (JIS C 5202 标准) Test Methods (JIS C 5202)
端头强度 Bending Strength	无可见损伤 No mechanical damage $\Delta R \leq \pm (1.0\%R + 0.05\Omega)$	弯曲速度 (Speed): 1mm/s 弯曲距离 (Bending Distance): 0201、0402、0603、0805、1206、1210: 3mm; 1812、2010、2512: 1mm
电阻温度系数 T. C. R	在规定值内 within specified T.C.R	测定范围: -55°C ~ +125°C Measure between -55°C ~ +125°C
温度循环 Temperature Cycling	无可见损伤 No mechanical damage $\Delta R \leq \pm (1.0\%R + 0.05\Omega)$	-55°C (30 分钟) ~ 常温 (5 分钟) ~ 125°C (30 分钟) 5 个循环 -55°C (30min) ~ normal temperature (5min) ~ 125°C (30min) 5 cycles
短时间过负载 Short Time Overload	无可见损伤 No mechanical damage $\Delta R \leq \pm (2.0\%R + 0.05\Omega)$	2.5 倍额定电压或最大过负荷电压 (取最小者) 保持 5 秒 2.5 × Rated voltage or Max. Overload Voltage whichever is lower for 5 seconds

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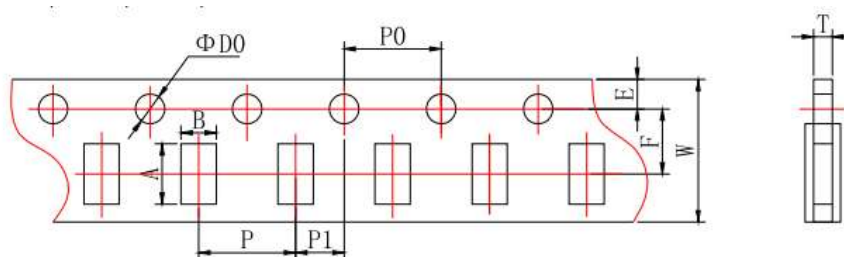
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稳态湿热 Steady state humidity	无可见损伤 No mechanical damage $\Delta R \leq \pm (3.0\%R + 0.1 \Omega)$	40°C ± 2°C 90%~95%RH 1000 小时 40°C ± 2°C 90%~95%RH 1000h
70°C 耐久性 Load Life	无可见损伤 No mechanical damage $\Delta R \leq \pm (3.0\%R + 0.1 \Omega)$	70°C ± 2°C, 1000 小时, 额定电压通 1.5 小时/断 0.5 小时 70°C ± 2°C, 1000h, Rated voltage 1.5h on/0.5h off
上限类别温度耐久性 Endurance at upper temperature	无可见损伤 No mechanical damage $\Delta R \leq \pm (3.0\%R + 0.1 \Omega)$	125°C ± 2°C 1000h
耐溶剂性 Resistance to Solvent	无可见损伤 No mechanical damage $\Delta R \leq \pm (1.0\%R + 0.05 \Omega)$	浸入三氯乙烯 10h ± 1h Dip in chloroethylene for 10h ± 1h.
绝缘电阻 Insulation Resistance	1000MΩ Min	在电极与基片间施加 100V 直流电压, 保持 1 分钟, 然后测绝缘电阻值。 Apply DC 100V between substrate and termination for 1 minute, then check insulation resistance
耐焊接热 Resistance to Soldering Heat	无可见损伤 No mechanical damage $\Delta R \leq \pm (1.0\%R + 0.05 \Omega)$	260°C ± 5°C 10s ± 1s
可焊性 Solderability	可焊面积 ≥ 95% 95% Cover Min	235°C ± 5°C 2s ± 0.5s
附着力 Adhesion	外观无可见损伤 No mechanical damage	施加力 5N 10s ± 1s Applying 5N 10s ± 1s

● Package



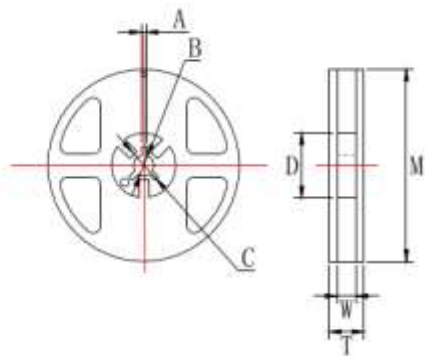
Type	A	B	W	F	E
0603	0.70 ± 0.10	0.40 ± 0.10	8.00 ± 0.20	3.5 ± 0.05	1.75 ± 0.10
1005	1.2 ± 0.10	0.70 ± 0.10	8.00 ± 0.20	3.5 ± 0.05	1.75 ± 0.10
1608	1.85 ± 0.10	1.10 ± 0.10	8.00 ± 0.20	3.5 ± 0.05	1.75 ± 0.10
2012	2.35 ± 0.10	1.65 ± 0.10	8.00 ± 0.20	3.5 ± 0.05	1.75 ± 0.10
3216	3.5 ± 0.20	1.9 ± 0.20	8.00 ± 0.20	3.5 ± 0.05	1.75 ± 0.10
3220	3.5 ± 0.20	2.8 ± 0.20	8.00 ± 0.20	3.5 ± 0.05	1.75 ± 0.10



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Type	P	P0	P1	Φ D0	T	
					Thick film resistor and Thin film resistor	Metal Foil resistor
0603	4.00±0.10	4.00±0.10	2.00±0.05	1.5±0.10	0.60±0.10	0.75±0.10
1005	4.00±0.10	4.00±0.10	2.00±0.05	1.5±0.10	0.75±0.10	0.75±0.10
1608	4.00±0.10	4.00±0.10	2.00±0.05	1.5±0.10	0.75±0.10	0.75±0.10
2012	4.00±0.10	4.00±0.10	2.00±0.05	1.5±0.10	0.75±0.10	0.75±0.10
3216	4.00±0.10	4.00±0.10	2.00±0.05	1.5±0.10	0.75±0.10	0.75±0.10
3220	4.00±0.10	4.00±0.10	2.00±0.05	1.5±0.10	0.75±0.10	-----



單位 unit: mm

Type	M	W	T	A	B	C	D
0603 1005							
1608 2010	178±2.0	9.5±1.0	12.5±1.5	2.0±0.5	13.0±0.5	21.0±0.5	58.0±2.0
3216 3220							

● Soldering

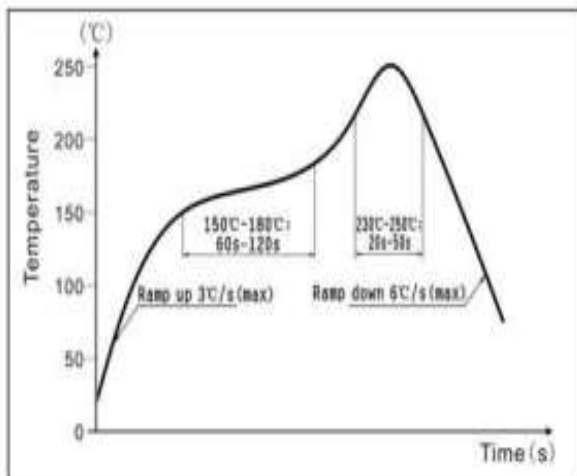


图 1 Recommended reflow profile

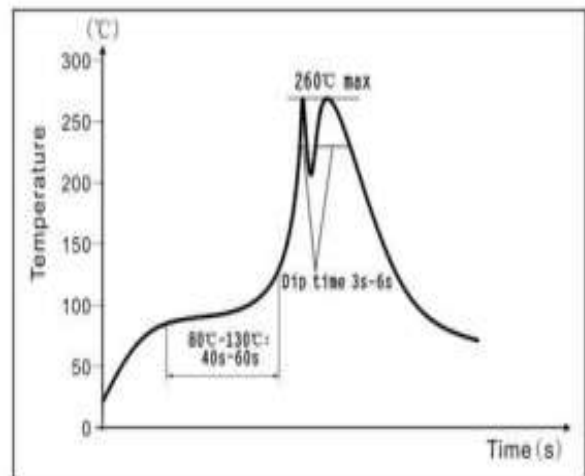


图 2 Recommended wave solder profile