



Features:

- Ring binder surface mount resistor kits
- 0603, 0805 and 1206 case sizes
- 5% and 1% tolerance options
- Available in E6, E12 and E24 series values
- Kits contain 100 pieces of each ohmic value from 10R to 1M plus 0R
- All resistors are individually marked and supplied on 8mm tapes
- Kits can be restocked when required

Specification Table

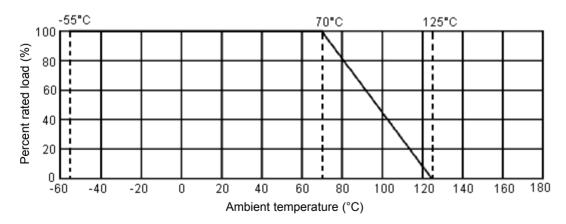
Туре	Power Rating (W)	Resistance Tolerance	Nominal Resistance		
RMC 0805 1 / 10		F	1 ΚΩ		

Ratings:

Туре	RMC 0805		
Power Rating	0.1 W		
Maximum Working Voltage	150 V		
Maximum Overload Voltage	300 V		
Temperature Range	-55°C +125°C		
Ambient Temperature	70°C		

Power Rating:

Resistors shall have a power rating based on continuous load operation at an ambient temperature of 70°C. For temperature in excess of 70°C, the load shall be derate.



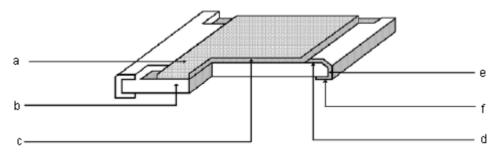
Nominal Resistance

Effective figures of nominal resistance shall be in accordance with E-24, E-96 series for 1% and E-24 series for 2% and 5%.





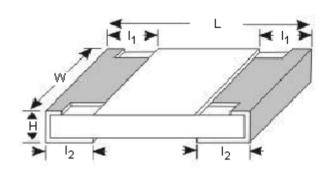
Construction:

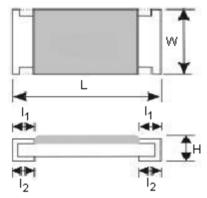


- a. Protective coating: Epoxy
- b. Al₂O₃ high purity alumina substrate: Al 96%
- c. Resistive element: metal film

- d. Termination (Inner): Ag/Pd
- e. Termination (Between): Ni plating film
- f. Termination (Outer): Sn/Pb plating film

Power Rating and Dimensions:





Dimensions: Millimetres

Dimensions

Туре	L ±0.15	W +0.15 -0.10	H ±0.10	λ1 ±0.2	λ2 ±0.2	
RMC 0805	2	1.25	0.55	0.4	0.4	

Dimensions : Millimetres

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Power Rating

Туре	Power Rating at 70°C (W)	Tolerance %	Standard Series		
RMC 0805	0.1	±1	E-24		





Performance specifications

Characteristics	Limits	Test Methods (JIS C 5201-1)				
Temperature coefficient	10 Ω to 100 Ω ±200 PPM/°C 101 Ω to 1 M Ω ±100 PPM/°C	Natural resistance change per temperature degree centigrade $R_2\text{-}R_1 \ / \ R_1 \ (t_2\text{-}t_1) \ x \ 10^6 \ (PPM/^\circ C)$ $R_1 \qquad : \text{Resistance value at room temperature } (t_1)$ $R_2 \qquad : \text{Resistance value at room temperature plus}$ $100^\circ C \ (t_2)$				
Short time overload	Resistance change rate is ±(1.0% + 0.1 Ω) Maximum		ent resistance change all of 2.5 times RCWV for			
Insulation resistance	1,000 MΩ or more		00 V dc between protection for 1 minimum, ther			
Dielectric withstanding voltage	No evidence of flashover mechanical damage, arcing or insulation break down		00 V AC between protection for 1 minute	ctive coating and		
Terminal bending	±(1.0% + 0.05 Ω) Maximum	Twist of	test board : Y/X	= 5 / 90 mm for 10 s		
		Resistance change after continuous 5 cycles for duty cycle specified below:				
		Step	Temperature	Time		
Temperature cycling	±(0.5% + 0.05 Ω) Maximum	1	-55°C ±3°C	30 mins		
		2	Room temperature	10°C 15 mins		
		3	+125°C ±2°C	30 mins		
		4	Room temperature	10°C 15 mins		
Load life in humidity	Resistance change rate is $\pm (1.0\% + 0.1 \Omega)$ Maximum	Resistance change after 1,000 hours (1.5 hours "on", 0.5 hour "off") at RCWV in a humidity chamber controlled at 40°C ±2°C and 90 to 95% relative humidity				
Load Life	Resistance change rate is $\pm (1.0\% + 0.05 \Omega)$ Maximum	Permanent resistance change after 1,000 hours operating at RCWV, with duty cycle of (1.5 hours "on", 0.5 hour "off") at 70°C ±2°C ambient.				
Soldering Heat	Electrical characteristics shall be satisfied. Without distinct deformation in appearance.	Solder bath method Pre-heat : 100°C to 105°C , 30 ±5 s Temperature : 265°C ± 3°C, 5 +1/-0s Reflow soldering method Peak : 250 +5 / -0°C 230°C or higher 30 ±10 s Soldering iron method Bit temperature : 350 ±10°C Application time of soldering iron : 3 +1/-0s				
Solderability	95% coverage minimum	Test temperature of solder : 245 ±3°C Dipping them solder : 2 to 3 s				





Resistance Preferred Value Range

E6	E12	E24	E96	Εē	;	E12	E24	E96	E6	E12	E24	E96
10	10	10	10					21.5				46.4
			10.2	22		22	22	22.1	47	47	47	47.5
			10.5					22.6				48.7
			10.7					23.2				49.9
		11	11					23.7			51	51.1
			11.3				24	24.3				52.3
			11.5					24.9				53.6
			11.8					25.5				54.9
	12	12	12.1					26.1		56	56	56.2
			12.4					27.7				57.6
			12.7			27	27	27.4				59
		13	13					28				60.4
			13.3					28.7			62	61.9
			13.7					29.4				63.4
			14				30	30.1				64.9
			14.3					30.9				66.5
			14.7					31.6	68	68	68	68.1
15	15	15	15					32.4				69.8
			15.4	33		33	33	33.2				71.5
			15.8					34				73.2
		16	16.2					34.8			75	75
			16.5					35.7				76.8
			16.9				36	36.5				78.7
			17.4					37.4				80.6
			17.8					38.3		82	82	82.5
	18	18	18.2		-	39	39	39.2				84.5
			18.7					40.2				86.6
			19.1					41.2				88.7
			19.6					42.2			91	90.9
		20	20				43	43.2				93.1
			20.5					44.2				95.3
			21					45.3				97.6

Above values in accordance with IEC Publication 63 (1963) and BS2488

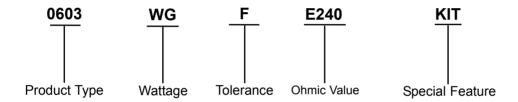




Part Number Table

Description	Part Number
Resistor Kit, 0603, E24, 1%	0603WGFE240KIT
Resistor Kit, 0603, E6, 5%	0603WGJE060KIT
Resistor Kit, 0603, E12, 5%	0603WGJE012KIL
Resistor Kit, 0805, E24, 1%	0805WAFE240KIT
Resistor Kit, 0805, E12, 5%	0805WAJE120KIT
Resistor Kit, 0805, E24, 5%	0805WAJE240KIT
Resistor Kit, 1206, E24, 1%	1206W8FE240KIT
Resistor Kit, 1206, E12, 5%	1206W8JE120KIT

Part Number Explanation:



Wattage : WG = 1/16 W, WA = 1/10 W and W8 = 1/8 W

And replaces the decimal point

eg: $1R5 = 1.5 \Omega$ $4K7 = 4.7 K\Omega$ $6M8 = 6.8 M\Omega$

Special Feature : KIT = Chip Kit resistor

Stocked Values

Tolerance	Wattage (W)	Preferred Value Range	Range Value
1%	0.063	E96	1R5 - 1M
1%	0.1	E24	1R5 - 1M
1%	0.125	E24	10R - 1M

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