



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

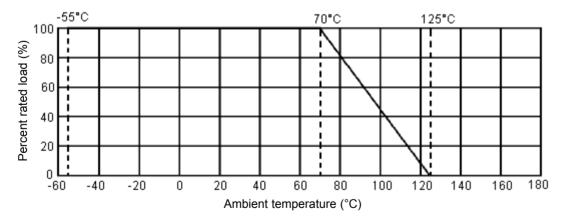
Туре	Power Rating (W)	Resistance Tolerance	Nominal Resistance		
RMC 0805	1 / 10	F	1 KΩ		

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

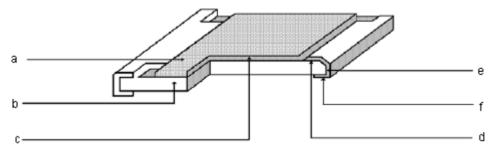
Effective figures of nominal resistance shall be in accordance with E-24, E-96 series for 1% and E-24 series for 2% and 5%.

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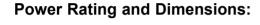


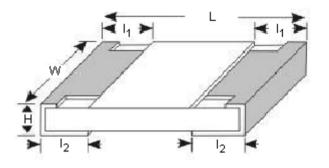
Construction:

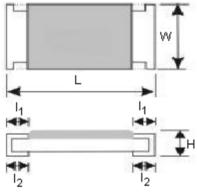


- a. Protective coating: Epoxy
- b. Al₂O₃ high purity alumina substrate: Al 96%
- c. Resistive element: metal film

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







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

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 MΩ ±100 PPM/°C	Natural resistance change per temperature degree centigrade $R_2-R_1 / R_1 (t_2-t_1) \times 10^6 (PPM/^{\circ}C)$ R_1 : Resistance value at room temperature (t_1) R_2 : Resistance value at room temperature plus 100°C (t_2)					
Short time overload	Resistance change rate is $\pm(1.0\% + 0.1 \Omega)$ Maximum	Permanent resistance change after the application of a potential of 2.5 times RCWV for 5 s					
Insulation resistance	1,000 MΩ or more	Apply 500 V dc between protective coating and termination for 1 minimum, then measure					
Dielectric withstanding voltage	No evidence of flashover mechanical damage, arcing or insulation break down	Apply 500 V AC between protective coating and termination for 1 minute					
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 ambien					
		Solder bath method Pre-heat : 100°C to 105°C , 30 ±5 s Temperature : 265°C ± 3°C, 5 +1/-0s					
Soldering Heat	Electrical characteristics shall be satisfied. Without distinct deformation in appearance.	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°CDipping them solder: 2 to 3 s					





Resistance Preferred Value Range

E6	E12	E24	E96	E6	i	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

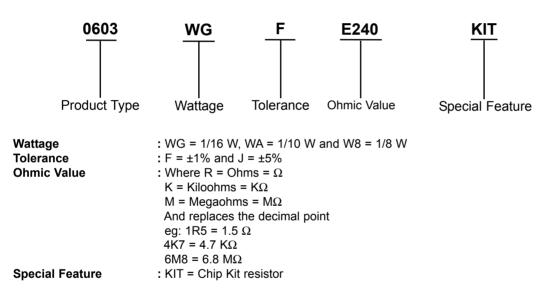




Part Number Table

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:



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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