

MM SERIES

METAL FILM MELF RESISTORS

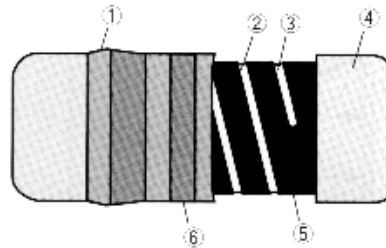


STANDARD TYPE MM204 1/4W, MM207 1/3W,

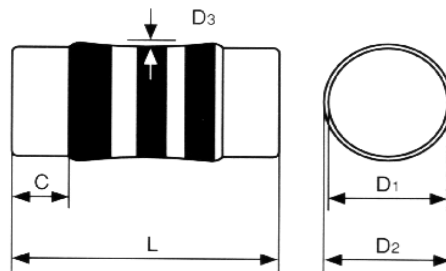
FEATURES:

- SPEC PER IEC 115-1, 115-4, MIL-R-10509, JIS 6402.
- STANDARD TOLERANCE: $\pm 1\%$ (F). $\pm 2\%$ (G). $\pm 5\%$ (J).
- SUITABLE FOR REFLOW, WAVE, AND IRON SOLDERING .
- ELECTRODES STRENGTH IS HIGHER THAN FLAT CHIP RESISTORS.
- LOWER CURRENT NOISE THAN THICK FILM FLAT CHIP RESISTORS.

CONSTRUCTION



1. EPOXY RESIN (INSULATIVE LACQUER)
2. CUTTING LINE
3. CERAMIC CORE (HIGH CONDUCTIVITY)
4. END CAP (TINNED IRON)
5. METAL FILM (HIGH STABILITY)
6. MARKING (4 COLOR RINGS)



TYPE NO.	DIMENSIONS (mm)				
	L	D1 ± 0.1	D2 Max	D3 Max	C Min
MM204	3.5 ± 0.2	1.45	1.55	0.1	0.5
MM207	5.9 ± 0.2	2.2	2.4	0.15	0.5

SPECIAL SIZES, VALUES AND SPECIFICATIONS NOT LISTED AVAILABLE ON SPECIAL ORDER.

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CHARACTERISTICS:

ITEM		POWER RATED(70°C)	MM204 1/4W	MM207 1/3W
MAX WORKING VOLTAGE			200V	250V
MAX OVERLOAD VOLTAGE			400V	500V
MAX INTERMITTENCE OVERLOAD VOLTAGE			500V	750V
DIELECTRIC WITHSTANDING VOLTAGE			300V	500V
RESISTANCE TOLERANCE			±1(F) ±2(G) ±5(J)	±1(F) ±2(G) ±5(J)
RESISTANCE RANGE	MIN		10R	0R22
	MAX		1M	9R9

NOTE: RATED CONTINUOUS WORKING VOLTAGE (RCWV) SHALL BE DETERMINED FROM
 $RCWV = (\text{Power} \times \text{Resistance})^{1/2}$

PERFORMANCE SPECIFICATIONS :

CHARACTERISTIC	SPECIFICATIONS	TEST METHODS
DC RESISTANCE	F(±1%) G(±2%) J(±5%)	AT 25°C
T.C.R.	±50PPM	RESISTANCE VALUE AT ROOM TEMPERATURE AND ROOM TEMPERATURE + 100°C
	10R~1M	
SHORT TIME OVER LOAD	±(0.5%±0.05R)	2.5 TIME RCWV 5 SEC.
INSULATION RESISTANCE	1000M OR MORE	V-BLOCK
LOAD LIFE	±(1%±0.05R)	70°C , 1000 HRS. 1.5 hours ON, 0.5 hours OFF
LOAD LIFE IN HUMIDITY	±(1%±0.05R)	40°C , 90-95%RH, 1000 HRS.
TEMPERATURE CYCLING	±(0.5%±0.05R)	-25°C /125°C , 5 CYCLING.
RESISTANCE TO SOLDERING HEAT	±(0.5%±0.05R)	350 °C , 3.5 SEC. 260 °C , 10 SEC.
SOLDERABILITY	95% COVERAGE MINIMUM	235 °C , 2 SEC.