

Approval Sheet

for

**Metal Film Resistors
Professional Type**

MF0 series

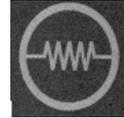
0 ohm Type

YAGEO CORPORATION

Headquarters: 3F, No.233-1, Pao Chiao Rd., Xindian, Taipei, Taiwan, R.O.C.

Tel: 886-2-6629-9999 **Fax:** 886-2-6628-8885

URL: www.yageo.com



1. PRODUCT:

METAL FILM RESISTORS, PROFESSIONAL TYPE

2. PART NUMBER:

Part number of the metal film resistor is identified by the name, power, tolerance, packing, temperature coefficient, special type and resistance value.

Example :

MF0	207	-	T	-	52-	0R
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Series	Power	Resistance	Packing	Temperature	Special	Resistance
Name	Rating	Tolerance	Style	Coefficient	Type	Value
				of Resistance		

(1) Style: MF0 SERIES

(2) Power Rating : 204 = 0.4W · 207 = 0.6W

(3) Tolerance : "-" = not applicable

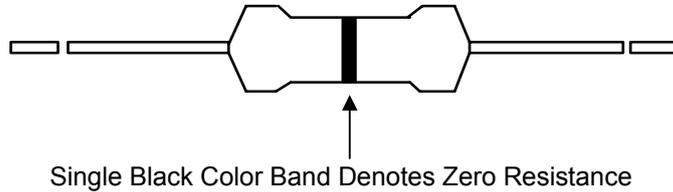
(4) Packaging Type: R=Paper Taping Reel
 T=Tape on Box Packing
 B=Bulk Packing

(5)Temperature Coefficient : "-" = not applicable

(6) Special Type : 26- = 26mm
 52- = 52.4mm
 M = M-Type Forming for Bulk
 MT = M-Type Forming for Taping (Rated 0204 size only)
 FT = F-Type Forming for Taping (Rated 0207 size only)
 PN = PANAsert (Rated 0207 size only)
 AV = Avlsert (Rated 0207 size only)

(7) Resistance Value : 0R = 0 ohm

3. BAND-CODE:

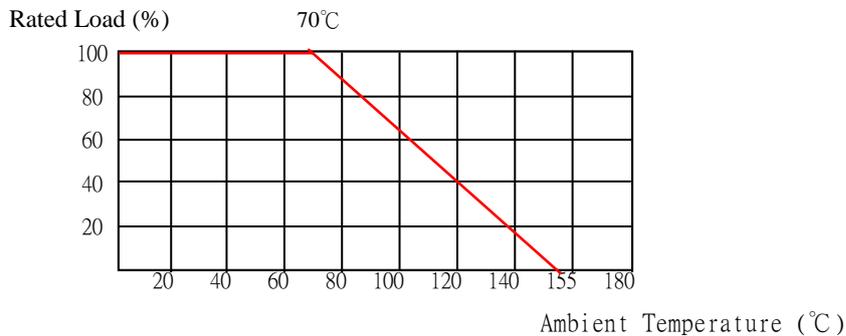


4. ELECTRICAL CHARACTERISTICS

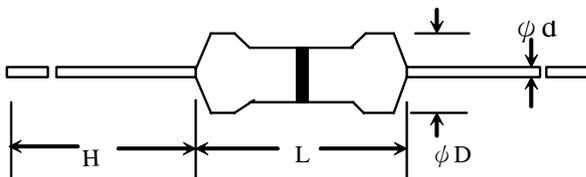
TABLE I

STYLE	MF0204	MF0207
Power Rating at 70 °C	0.4W	0.6W
Maximum Current Rating at 70 °C	1.5A	2.5A
Voltage Proof	300V	500V
Resistance Value	Less than 20 mΩ	
Operating Temp. Range	- 55 °C to + 155 °C	

5. DERATING CURVE

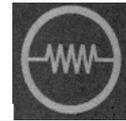


6. DIMENSIONS



Unit : mm

STYLE	L	ϕD	H	ϕd
MF0204	3.4±0.3	1.9±0.2	28±2.0	0.45±0.05
MF0207	6.3±0.5	2.4±0.2	28±2.0	0.55±0.05



7. ENVIRONMENTAL CHARACTERISTICS

(1) Voltage Proof

The resistor shall be clamped in the trough of a 90° metal V Block. Apply the insulation voltage specified in the "Table I " between the terminals connected together with the block for about 60 seconds. The resistor shall be able to withstand without breakdown or flashover.

(2) Insulation Resistance

Apply "measuring voltage" between protective coating and termination for 1 min.,then measure. The measuring voltage shall be either 100V±15V d.c. for resistors with an insulation voltage lower than 500V or 500V±50V d.c. for resistors with an insulatin voltage equal to or greater than 500V. The test resistance should be high than 10,000M ohm.

(3) Solderability

Immerse the specimen into the solder pot at 235 ± 5 °C for 3 ± 0.5 seconds. At least 95% solder coverage on the termination.

(4) Solvent Resistance of Marking

The specimen into the appropriate solvent of IPA condition of ultrasonic machine for 5± 0.5 minutes. The specimen is no deterioration of coatings and color code

(5) Robustness of Terminations

Direct Load – Resistors shall be held by one terminal and the load shall be gradually applied in the direction of the longitudinal axis of the resistor unit the applied load reached the requirement. The load shall be held for 10 seconds. The load of weight shall be ≥ 2.5 kg (24.5N).

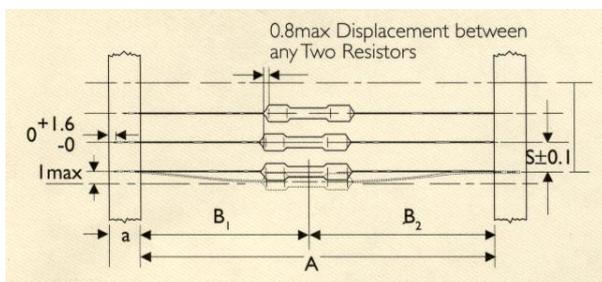
(6) Resistance to Soldering Heat

The terminal lead shall be dipped into the solder pot at 260 ± 3 °C for 10 ± 1.0 seconds up to 2.5 ~ 3.5 mm.

The change of the resistance value shall be within 5 mΩ.

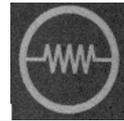
8. PACKING METHODS

Bandolier for Axial leads

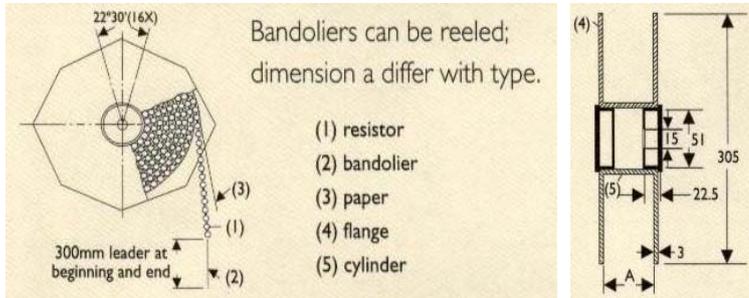


Unit: : mm

STYLE	a	A	B1-B2	S (spacing)	T (max. deviation of spacing)
MF0204	6 ± 0.5	52.4 ± 1.0	1.2	5	0.5 mm per 5 spacing
		26.0 ± 1.0	1.0		
MF0207	6 ± 0.5	52.4 ± 1.0	1.2	5	1 mm per 10 spacing
		26.0 ± 1.0	1.0		

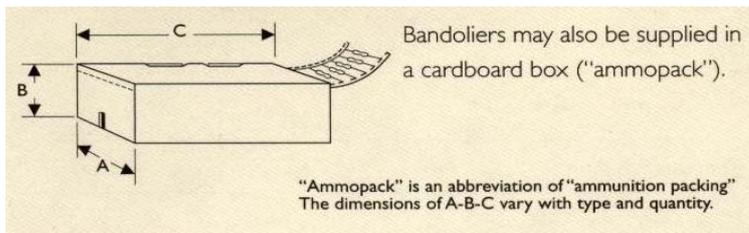


9. TAPE ON REEL PACKING



STYLE	ACROSS FLANGE (A)	Qty per reel
MF0204	72	5,000
MF0207	72	5,000

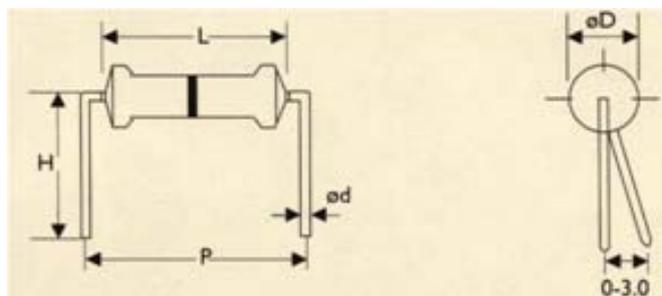
10. TAPE ON BOX PACKING



STYLE	Standard Lead Length			Short Lead Length			Qty per box
	W (A)	H (B)	L (C)	W (A)	H (B)	L (C)	
MF0204	81	70	260	48	102	255	5,000
MF0207	81	104	260	48	102	255	5,000

11. SPECIAL TYPE (FORMING DIMENSIONS)

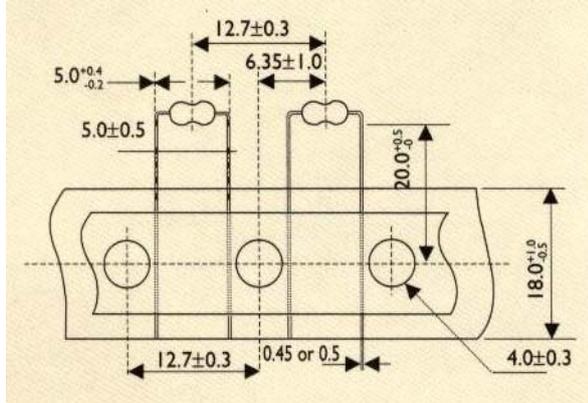
M TYPE Forming for Bulk



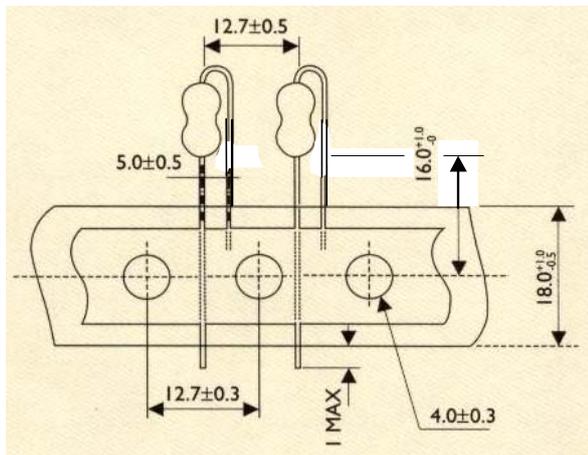
UNIT : mm

STYLE	L	ϕD	ϕd	P	H
MF0204	3.4 ± 0.3	1.9 ± 0.2	0.45 ± 0.05	6.0 ± 1	10.0 ± 1
MF0207	6.3 ± 0.5	2.4 ± 0.2	0.55 ± 0.05	10.0 ± 1	10.0 ± 1

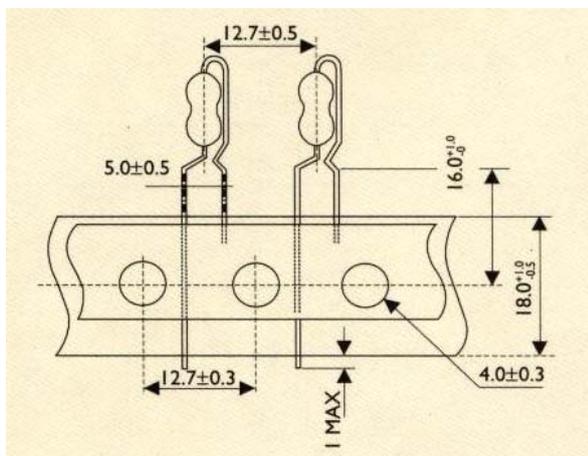
MT Type Forming for Taping (Rated 0204 size only)

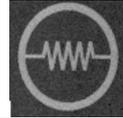


FT Type Forming for Taping (Rated 0207 size only)

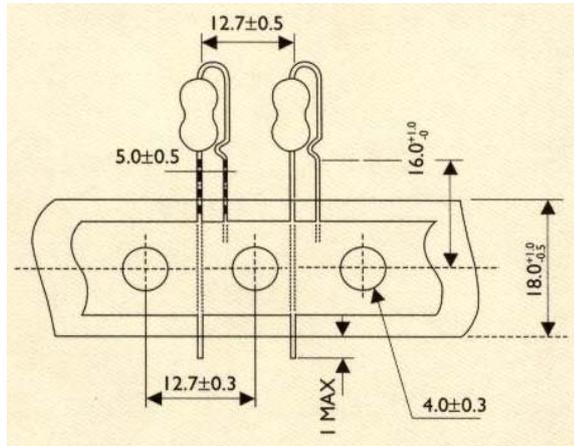


PN Type Forming for Taping (Rated 0207 size only)





AV Type Forming for Taping (Rated 0207 size only)



12. Plant Address

- A. China Dongguan Plant
7-1, Gaoli Road, Gaoli Industrial Zone
Tangxia Zhen, Dongguan, Guangdong, China
(廣東省東莞市塘廈鎮高麗工業區高麗路 7-1 號)
Tel. 86-769-8772 0275
Fax. 86-769-8772 0275 #4333

- B. China Mudu Plant
No.158, Jinchang Road, No.1 Building of Nan Bang IND. Zone,
Mu Du New District, Suzhou, China
(江蘇省蘇州市木瀆新區金長路 158 號南濱工業區 1 號)
Tel. 86-512-66518889
Fax. 86-512-66519889