



# PROFESSIONAL TYPE MINIATURE STYLE

## INTRODUCTION

The MFO Series are manufactured by high vacuum sputtering deposit metal film on high thermal conductivity and specific gravity ROSENTHAL ceramic or same grade rods. The resistors are coated with multilayers of blue coloured laquer.

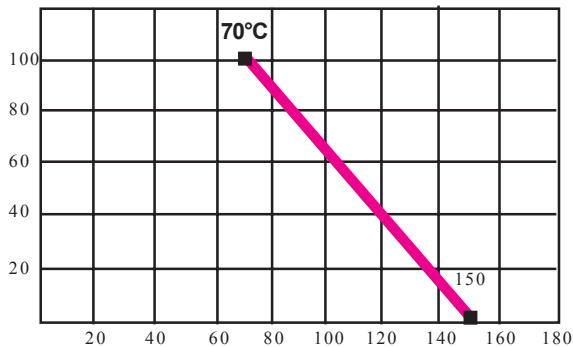


## FEATURES

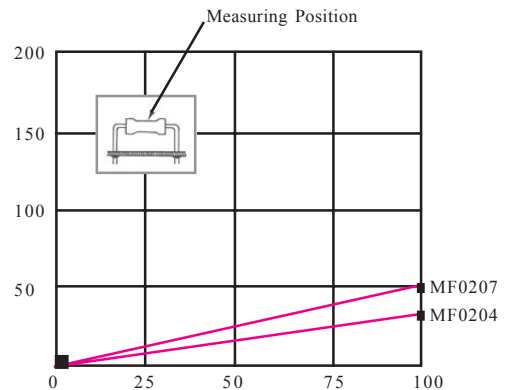
- DIN 44061, 45921 part 107
- CECC 40101-039, 40101-107
- MIL 10509F (Char. D & C)
- Resistance Tolerance:  $\pm 1\%$
- T.C.R  $\pm 50\text{ppm}/^\circ\text{C}$

**YAGEO**

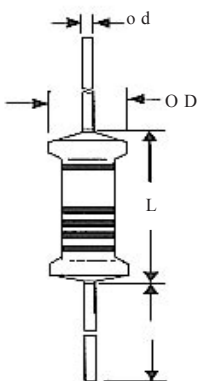
### Derating Curve:



### Hot-Spot Temperature:



### Dimensions:



UNIT :MM

Style	Dimensions			
	L	ø D	H	ø d
Normal				
MF0204	3.3±0.4	1.8±0.3	28±2.0	0.5±0.05
MF0207	6.3±0.5	2.3±0.3	28±2.0	0.6±0.05

**series MFO**



# TECHNICAL SPECIFICATIONS

## ELECTRICAL CHARACTERISTICS

# YAGEO

\* Standard Resistance is 10Ω~1MΩ, below or over this resistance on request.

STYLE	MF0204	MF0207
Power Rating @ 70%	0.4W	0.6W
Operation Temperature Range	-55°C to +55°C	
Maximum Working Voltage	200V	300V
Maximum Overload Voltage	400V	600V
Dielectric Withstanding Voltage	300V	500V
Value Range ±1%	10Ω ~ 1MΩ	
Temperature Coefficient	±50ppm/°C	

## ENVIRONMENTAL CHARACTERISTICS

\* Rated continuous working voltage (RCWV) =  $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$

Performance Test	Test Method	Appraise
Short Time Overload	JIS-C-5202 5.5 2.5 Times RCWV for 5 Seconds	±(0.25% + 0.05Ω)
Dielectric Withstand Voltage	JIS-C-5202 5.7 in V-Block for 60 Seconds	by Type
Temp. Coefficient of Resistance	JIS-C-5202 5.2 -55°C~+155°C	±50ppm/°C
Insulation Resistance	JIS-C-5202 5.6 in V-Block	>10000MΩ
Solderability	JIS-C-5202 6.5 235°C for 5±0.5 Seconds	95% Min. Coverage
Resistance to Solvent	JIS-C-5202 6.9 Trichroethane for 1 Min. with Ultrasonic	No deterioration of coatings and markings
Terminal Strength	Direct load for 10 sec. in the direction of the Terminal Leads.	≥2.5kg (24.5N)
Pulse Overload	JIS-C-5202 5.8 4 Times RCWV 10000 Cycles.( 1sec on, 25 secs off)	±(2%+0.05Ω )
Load Life in Humidity	JIS-C-5202 7.9 40±2°C, 90~95% RH at RCWV for 1000hrs. (1.5 hrs on, 0.5 hrs off.)	±(1.5%+0.05Ω )
Load Life	JIS-C-5202 7.10 70°C at RCWV for 1000hrs (1.5 hrs on, 0.5 hrs off)	±(1.5%+0.05Ω )
Temperature Cycling	JIS-C-5202 7.4 -55°C→ Room Temp.→ 155°C→ Room Temp. for 5 cycles	±(0.25%+0.05Ω )
Resistance to Soldering Heat	JIS-C-5202 6.4 350°C±10°C for 3±0.5 Seconds	±(0.25%+0.05Ω )

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