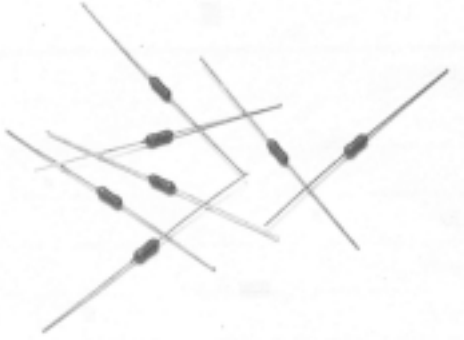


Carbon Film Resistors

JARO COMPONENTS, INC. LEADED RESISTORS



PROFESSIONAL & FLAME-PROOF TYPE

Miniature Style [MF Series]

FEATURES

Excellent Long-Term Stability

Miniature in Size

Coating and Marking Resist Trichlorethylene, Freon, and Other Cleaning Agents

Resistance Tolerance: $\pm 5\%$

Resistance Range: 1Ω - $10M\Omega$

INTRODUCTION

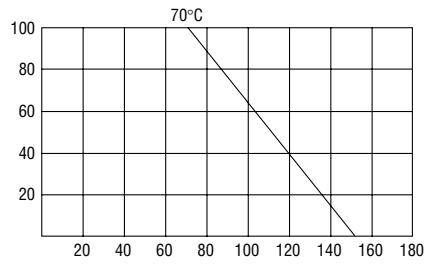
The MF Series are manufactured by Coating a homogeneous film of pure carbon on high grade ceramic rods, resistance less than 10Ω have an electroless-deposited nickel film.

The 600MF resistors are coated with layers of green color flame-proof lacquer.

The 600MF resistors meet overload test in accordance with UL specification #1412 without producing a fire hazard.

DERATING CURVE

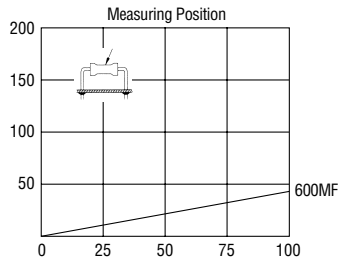
Rated Load (%)



Ambient Temperature (°C)

HOT-SPOT TEMPERATURE

Surface Temp. Rise (°C)



Applied Load, % of RCWV

DIMENSIONS

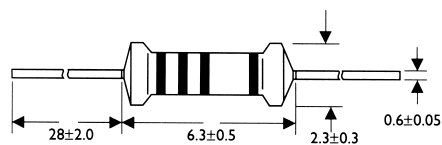


FIG. 1 TEMPERATURE COEFFICIENT

STYLE	Max. Value of Temp. Coefficient ppm/°C		
	under $100K\Omega$	$100K$ to $1M\Omega$ excl.	$1M\Omega$ and over
600MF	+350 -500	+350 -700	+350 -1000

MF Series

ELECTRICAL CHARACTERISTICS

STYLE	600MF
Power Rating at 70°C	0.6W
Operating Temp. Range	-55°C to +155°C
Maximum Working Voltage	300V
Maximum Overload Voltage	600V
Dielectric Withstanding Voltage	500V
Value Range ±5%	1Ω-10MΩ
Temperature Coefficient (by Type)	see FIG. 1

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

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	TEST METHOD	APPRAISE
Short Time Overload	JIS-C-5202 5.5	2.5 Times RCWV for 5 Seconds	±(0.75%+0.05Ω)
Dielectric Withstanding Voltage	JIS-C-5202 5.7	in V-Block for 60 Seconds	500V
Temperature Coefficient of Resistance	JIS-C-5202 5.2	-55°C to +155°C	by Type
Insulation Resistance	JIS-C-5202 5.6	in V-Block	>1000MΩ
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 (1 Sec. on , 25 Sec. off)	±(1%+0.05Ω)
Load Life in Humidity	JIS-C-5202 7.9	40±2°C, 90-95% RH at RCWV for 1000 Hrs. (1.5 Hrs. on , 0.5 Hrs. off)	±(3%+0.05Ω)
Load Life	JIS-C-5202 7.10	70°C at RCWV for 1000 Hrs. (1.5 Hrs. on , 0.5 Hrs. off)	±(3%+0.05Ω)
Temperature Cycling	JIS-C-5202 7.4	-65°C·Room Temp.·150°C·Room Temp. for 5 Cycles	±(1%+0.05Ω)
Resistance to Soldering Heat	JIS-C-5202 6.4	350°C±10°C for 3±0.5 Seconds	±(1%+0.05Ω)

* Rated Continuous Working Voltage (RCWV)=√Power Rating x Resistance Value