



Resistors & Potentiometers

1/4W Metal Film Resistors

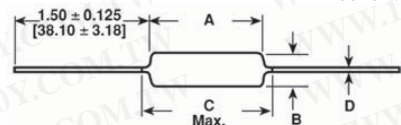
Detailed product specifications are available on: us.100y.com.tw



FEATURES

- Very low noise
- Very low voltage coefficient
- Controlled temperature coefficient
- Excellent high frequency characteristics

- Flame retardant epoxy coating
- Commercial alternatives to military styles are available with higher power ratings. See appropriate catalog or web page



VISHAY DALE MODEL	A	B	C (Max.)	D
CMF60	0.344 ± 0.031 [8.74 ± 0.79]	0.145 ± 0.015 [3.68 ± 0.38]	0.425 [10.80]	0.025 ± 0.002 [0.64 ± 0.05]

STANDARD ELECTRICAL SPECIFICATIONS					
MIL STYLE	VISHAY DALE MODEL	MAXIMUM WORKING VOLTAGE	VISHAY DALE® MILITARY APPROVED VALUE RANGE (Ω)		DIELECTRIC STRENGTH VAC
			MIL-R-10509 CHARACTERISTIC D	MIL-PRF-22684	
RN60	CMF60	300	10R - 1M	—	500

TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	CONDITION
Voltage Coefficient	ppm/V	5 when measured between 10% and full rated voltage
Insulation Resistance	Ω	≥10 ¹⁰ minimum dry; ≥10 ⁸ minimum after moisture test
Operating Temperature Range	°C	- 65 / + 175 (See derating curves for military range)
Terminal Strength	lb	5 pound pull test for RL07/RL20; 2 pound pull test for all others
Solderability		Continuous satisfactory coverage when tested in accordance with MIL-R-10509 and MIL-PRF-22684



Part No.	Product No.	Manufacturer	Description	Resistance data(Ω)	Tolerance(+/-)	Power W
28743	RN60D1000F	VISHAY	Vishay_CMF-60 METAL FILM RESISTOR	100Ω	+/-1%	1/4W
28746	RN60D1002F	VISHAY	Vishay_CMF-60 METAL FILM RESISTOR	10KΩ	+/-1%	1/4W
28741	RN60D1210FB14	VISHAY	Vishay_CMF-60 METAL FILM RESISTOR	120Ω	+/-1%	1/4W
28750	RN60D1601F	VISHAY	Vishay_CMF-60 METAL FILM RESISTOR	1.6KΩ	+/-1%	1/4W
2874 8	RN60D2001F	VISHAY	Vishay_CMF-60 METAL FILM RESISTOR	2KΩ	+/-1%	1/4W
28747	RN60D33R2F	VISHAY	Vishay_CMF-60 METAL FILM RESISTOR	33.2Ω	+/-1%	1/4W
28744	RN60D4750F	VISHAY	Vishay_CMF-60 METAL FILM RESISTOR	475Ω	+/-1%	1/4W
28815	RN60D4751F	VISHAY	Vishay_CMF-60 METAL FILM RESISTOR	4.7KΩ	+/-1%	1/4W
28749	RN60D7800F	VISHAY	Vishay_CMF-60 METAL FILM RESISTOR	780Ω	+/-1%	1/4W
28745	RN60D8250F	VISHAY	Vishay_CMF-60 METAL FILM RESISTOR	825Ω	+/-1%	1/4W

1/2W Metal Film Resistors

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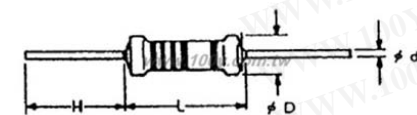


INTRODUCTION

MF series is a group of metal film resistors applying high Aluminum content base material vacuum sputtered by Ni-Cr alloy and excellent heat-and wet-proof special resin for protective coating. Those resistors are manufactured through integrated automatic production system and then have good stable and uniform property. Furthermore, they show excellent performance regardless open in air.

FEATURES

- High stability.
- Low noise, Low temperature coefficient.
- Precision characteristics.
- Variety of packaging-bulk, and taped, cut and formed supplied.



SPECIFICATION

TYPE	MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE		TYPE	DIMENSION(mm)					
			±1%(F)	±0.5%(G)		MF	MFS	L±1	D±0.5	H±3	d±0.05
1/2W	1/2W	350V	700V	10R~1M	10R~1M	1/2W	1W	9.0	3.2	30	0.6

DIMENSION

CHARACTERISTICS

CHARACTERISTIC	SPECIFICATION	TEST METHOD
DC RESISTANCE	Within specified tolerance	MIL-STD-202 Method 303
TEMPERATURE COEFFICIENT	As buyer requested ±10ppm/°C±50ppm/°C ±10ppm/°C±50ppm/°C	MIL-STD-202 Method 304
DIELECTRIC STRENGTH	No flashover or damage	MIL-STD-202 Method 301
INSULATION RESISTANCE	At least 1,000MΩ	MIL-STD-202 Method 302
CURRENT NOISE TEST	below 10K; below 0.05μ V/V 10K; ~below 0.1μ V/V below 1M7 below 0.2μ V/V	MIL-STD-202 Method 308
VIBRATION	ΔR with in ±(0.25%+0.05%)	MIL-STD-202 Method 201
TERMINAL STRENGTH	Lead is not break or loose	MIL-STD-202 Method 211
RESISTANCE TO SOLDERING HEAT	ΔR with in ±(0.25%+0.05%)	MIL-STD-202 Method 210
SHORT TIME OVERLOAD	ΔR with in ±(0.05%+0.05%)	MIL-R-10509
HUMIDITY	ΔR with in ±(1%+0.05%) No mechanical damage	MIL-STD-202 Method 103
LOW TEMPERATURE OPERATION	ΔR with in ±(0.5%+0.05%)	MIL-R-10509
LOAD LIFE	ΔR with in ±(1%+0.05%)	MIL-STD-202 Method 108
RESISTANCE TO SOLVENT	Color bands legible No mechanical damage	MIL-STD-202 Method 215



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