PRECISION METAL FILM RESISTORS



MF SERI

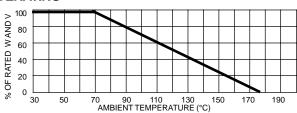


- \square Wide resistance range: 1.0 Ω to 22.1 Meg
- ☐ TC ±25 to ±100ppm standard, matching to 10ppm
- ☐ Precision quality, excellent stability, low cost
- Meets performance requirements of MIL-R-10509 and EIA RS-460 (screening per Mil-PRF-55182 available)
- ☐ Extremely low noise, reactance, voltage coefficient
- ☐ Available on exclusive **SWIFT** TM delivery program!
- ☐ All sizes available on Tape & Reel

OPTIONS

Custom marking, formed leads, matched sets, burn-in, increased power/voltage/pulse capability, flameproof, etc.

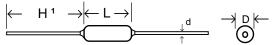
DERATING



RCD 100Ω 0.1%

Military-grade performance at commercial grade price!

RCD MF Series metal film resistors have been designed to meet or surpass the performance levels of MIL-R-10509 characteristics D, C, and E. The film is a nickel-chrome alloy, evaporated onto a high grade substrate using a high vacuum process to ensure low TC's and superb stability. The resistors are coated or encased with a high-temp epoxy to ensure utmost moisture and solvent protection. Stringent controls are used in each step of production to ensure 'built-in' reliability and consistent quality. Resistors are available with alpha-numeric or color band marking.



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RCD Type	L (Max.)	D (Max.)	d (Max.)	H¹ (Min.)	
MF50	.168 [4.3]	.075 [1.9]	.020 [.5]	1.00 [25]	
MF55	.285 [7.2]	.102 [2.6]	.026 [.66]	1.00 [25]	
MF60	.404 [10.3]	.160 [4.06]	.026 [.66]	1.10 [28]	
MF65	.598 [15.2]	.211 [5.36]	.028 [.7]	1.16 [29.5]	
MF70	.724 [18.4]	.264 [6.7]	.033 [.85]	1.16 [29.5]	
MF75	1.114 [28.3]	.409 [10.4]	.033 [.85]	1.16 [29.5]	

¹ Longer leads available

RCD	MIL	Wattage Rating	Maximum	TCR	TCR Standard Resistance Ra	
Type	TYPE ¹	@ 70°C	Working Voltage ²	PPM/°C³	1%	.5%, .25%, .1%
MF50	RN50	1/8W	200V	100, 50, 25	10 Ω to 1.0M Ω	10Ω to 562K
MF55 RN55	4 /4\\\	250\/	100, 50	1.0Ω to 22.1MΩ	10 Ω to 1.2M Ω	
IVIF33	MF55 RN55	1/4W	250V	25	10 Ω to 1.0M Ω	10Ω to 1.2MΩ
MF60 RN60	1/2W	300V	100, 50	2.5Ω to $5.1M\Omega$	10Ω to 1.5MΩ	
IVIFOU	IVIFOU KINOU	1/200	3007	25	10 Ω to 1.0M Ω	10Ω to 1.5MΩ
MF65 RN65	3/4W	350V	100, 50	10 Ω to 10M Ω	20Ω to $5.1ΜΩ$	
IVII OS	MIFOS KINOS	3/477	330 V	25	20Ω to 5.1 MΩ	20Ω to 5.1MΩ
MF70 RN70	1W	400V	100, 50	10 Ω to 15M Ω	20 Ω to 10M Ω	
			25	20 Ω to 10M Ω	20Ω to $10ΜΩ$	
MF75 RN75	DN75	RN75 2W	500V	100, 50	20Ω to $15M\Omega$	20Ω to $10ΜΩ$
	INIVIO			25	20Ω to $10M\Omega$	20Ω to $10ΜΩ$

MIL type given for reference only and does not imply MIL qualification or exact interchangeability. 2 Rated voltage = (PR)^{1/2} or Max. Voltage Rating, whichever is less.

PERFORMANCE CHARACTERISTICS*

Load Life (1000 hrs, full Mil equiv power @25°C)	0.10%	
Short Time Overload (2.5x RCWV, 5 Sec, NTE 1.5x VR)	0.05%	
Temp. Cycling (-55 to +85°C, 5 cycles, 1/2 hr)	0.10%	
Moisture Resistance** (MIL-STD-202, M.106)	0.10%	
Effect of Solder (260°C, 10 Sec)	0.02%	
Low Temperature Operation (-65°, 1 hr)	0.02%	
Shock, Vibration (per MIL-PRF-55182)	0.01%	
Dielectric Strength (up to 1KV available)	500V (MF50=300V)	
Operating Temperature Range	-65 to +175°C	

Data is representative of typical performance levels from 10 Ω -100K (consult factory for performance data outside this range). To ensure utmost reliability, care should be taken to avoid potential sources

P/N DESIGNATION: MF55 🗍 - 1002 RCD Type -Option Code: assigned by RCD (leave blank if standard) Resis. Code: 3 signif. digits & multiplier, e.g. R100= 0.1Ω , 1R00= 1Ω , 10R0= 10Ω , 1000= 100Ω , 1001=1K, 1002=10K, 1003=100K, 1004=1M, 1005=10M **Tolerance Code**: F= 1%, D= 0.5%, C= 0.25%, B= 0.1% Packaging: B = Bulk, T = Tape & Reel Temperature Coefficient: 25= 25ppm, 50= 50ppm, 101= 100ppm

Termination: W= Lead-free, Q= Tin/Lead (leave blank if either is acceptable, in which case RCD will select based on lowest price and quickest delivery

³ TC is measured at -20 to +85°C, referenced to 25°C. TC's to 10ppm available.