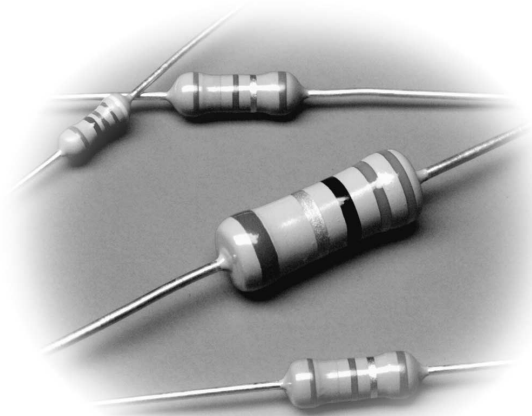
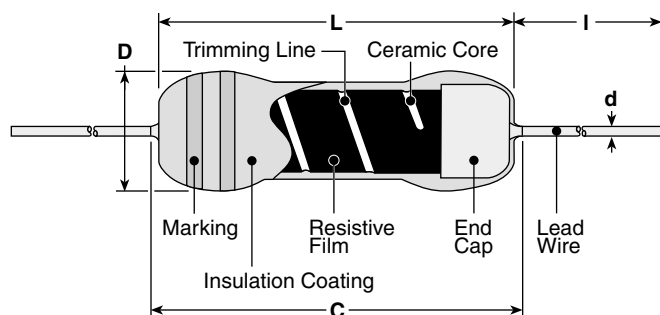




features

- Units meet or exceed the requirements of MIL-R-10509
- Suitable for automatic machine insertion
- Marking: Blue-gray body color with color-coded bands

dimensions and construction



Type	Dimensions inches (mm)				
	L (ref.)	C (max.)	D	d	I
MF1/4	.248 (6.3)	.280 (7.1)	.091±.012 (2.3±0.3)	.024±.002 (0.6±0.05)	1.18±.118 (30.0±3.0)
MF1/2	.374 (9.5)	.437 (11.1)	.138±.016 (3.5±0.4)		
MF1	.610 (15.5)	.721 (18.3)	.217±.02 (5.5±0.5)	.031±.002 (0.8±0.05)	1.50±.126 (38.1±3.2)

ordering information

Old Part #	MF55, MF60, MF65	D	1002	F	T52			
	Type	T.C.R.	Resistance	Tolerance	Packaging			
New Part #	MF	1/4	D	L	T52	R	1002	F
	Type	Power Rating	T.C.R.	Termination Material	Taping and Forming	Packaging	Nominal Resistance	Tolerance
		1/4: 0.25W 1/2: 0.5W 1: 1W	E: ±25 C: ±50 D: ±100	L: SnPb C: SnCu	1/4: T26, T52, VT, VTP, VTE, M10, M25, U 1/2: T52, M12.5, M15 1: T521	A: Ammo R: Reel	3 significant figures + 1 multiplier "R" indicates decimal on value <10Ω	B: ±0.1% C: ±0.25% D: ±0.5% F: ±1.0%

For further information on packaging, please refer to Appendix C.

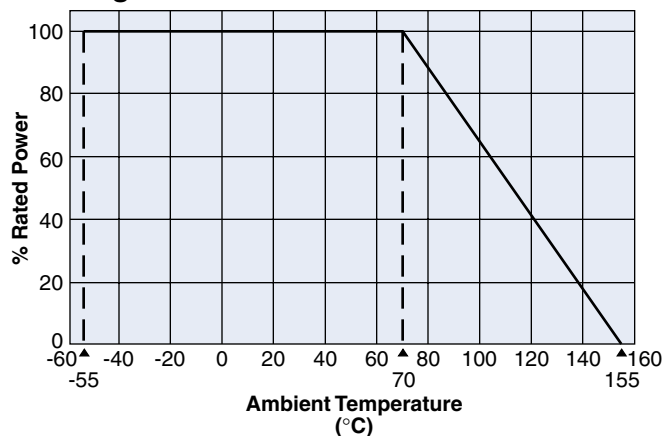
Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

applications and ratings

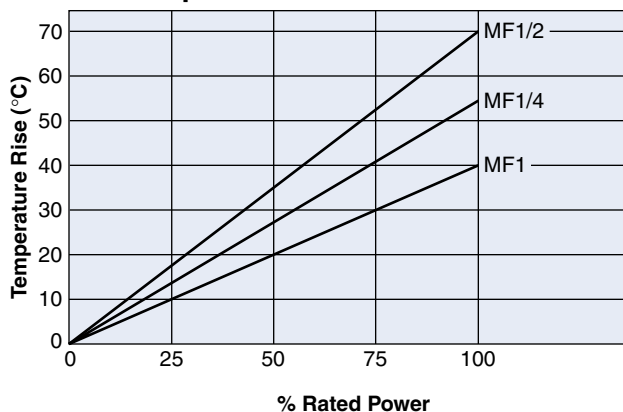
Part Designation	Power Rating @ 70°C	Minimum Dielectric Withstanding Voltage	T.C.R. (ppm/°C)	Resistance Range E-96				Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temperature Range
				(B±0.1%)	(C±0.25%)	(D±0.5%)	(F±1.0%)			
MF1/4D	0.25W	500V	D: ±100	24.3Ω - 750KΩ	24.3Ω - 1.0MΩ	10Ω - 5.9MΩ	1.0Ω - 22.1MΩ	250V	500V	-55°C to +155°C
MF1/4C			C: ±50	30.1Ω - 750KΩ	30.1Ω - 1.0MΩ		1.0Ω - 2.21MΩ			
MF1/4E			E: ±25		30.1Ω - 1.0MΩ	30.1Ω - 1.0MΩ				
MF1/2D	0.50W	700V	D: ±100	—	—	10Ω - 10MΩ	1.0Ω - 33.2MΩ	350V	700V	
MF1/2C			C: ±50	47.5Ω - 1.0MΩ	47.5Ω - 1.5MΩ		1.0Ω - 5.6MΩ			
MF1/2E			E: ±25		47.5Ω - 2.0MΩ	47.5Ω - 2.0MΩ				
MF1D	1W		D: ±100	—	—	10Ω - 5.11MΩ	1.0Ω - 6.81MΩ			
MF1C			C: ±50	47.5Ω - 1.0MΩ	47.5Ω - 2.49MΩ					
MF1E			E: ±25	47.5Ω - 2.0MΩ	7.5Ω - 2.49MΩ	47.5Ω - 4.64MΩ	47.5Ω - 5.11MΩ			

environmental applications

Derating Curve



Surface Temperature Rise



Performance Characteristics

Parameter	Requirement $\Delta R \pm(\% + 0.05\Omega)$		Test Method
	Limit	Typical	
Resistance	Within regulated tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+25°C/-55°C and +25°C/+125°C
Overload	0.5	0.3	Rated voltage x 2.5 or maximum overload voltage for 5 seconds, whichever is less
Resistance to Solder Heat		0.25	260°C ± 5°C for 10 seconds ± 1 second
Rapid Change of Temperature		0.3	-55°C (30 minutes)/+155°C (30 minutes), 5 cycles
Moisture Resistance	1.0	0.75	40°C ± 2°C, 90 - 95% RH, 1000 hours, 1.5 hour ON, 0.5 hr OFF cycle
Endurance @ 70°C			70°C ± 2°C, 1000 hours, 1.5 hour ON, 0.5 hr OFF cycle
High Temperature Exposure		0.5	+125°C, 100 hours

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