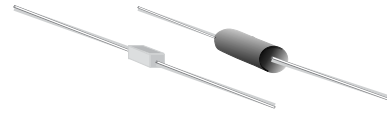


MICRO-MINIATURE FILM RESISTORS

MFA SERIES



- ❑ Subminiature size results in significant space savings
- ❑ Wide resistance range: 0.5Ω to 470MΩ
- ❑ Standard tolerance: ±5% (±0.1% through 10% available)
- ❑ Excellent high frequency and environmental performance
- ❑ Available with custom marking, mil-spec screening, tin-lead termination finish, cut & formed leads, etc.

World's smallest axial-lead resistors!

RCD Series MFA resistors were originally developed to fulfill specialty aerospace requirements but have found numerous uses in industrial and medical applications, including hearing aids, oscilloscope probes, high-frequency circuits, etc. MFA1/16 are the most popular and economical.

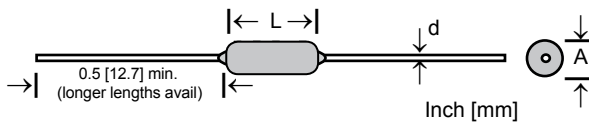


Figure 1: MFA1/10 & MFA1/20, conformed coated

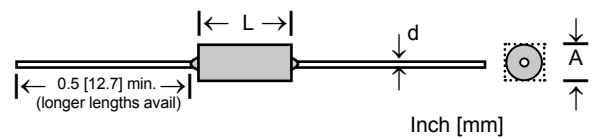


Figure 2: MFA1/16, encapsulated

DIMENSIONS & ELECTRICAL RATINGS

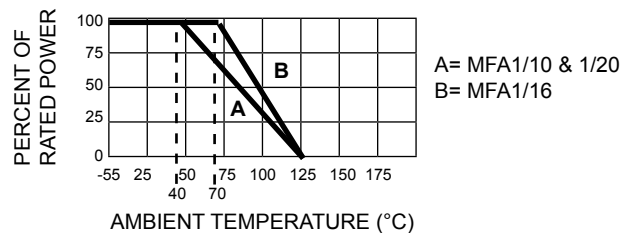
RCD Type	Figure	Wattage Rating	Max. Voltage Rating	Resistance Range					L ± .024 [.6]	A ± .008 [.2]	d ± .002 [.05]
				0.1%, .25%, .5% Tol.	1% Tol.	2% Tol.	5% Tol.	10% Tol.			
MFA1/20	1	.05W @40°C	50V	10Ω - 100K	10Ω - 1M	5.1Ω - 10M	1Ω - 100M	0.5Ω - 470M	.060 [1.52]	.030 [.76]	.008 [.2]
MFA1/16	2	.063W@70°C	50V	10Ω - 100K	10Ω - 1M	5.1Ω - 10M	1Ω - 100M	0.5Ω - 470M	.075 [1.9]	.036 [.91]	.008 [.2]
MFA1/10	1	.10W@40°C	100V	-	-	51Ω - 390K	10Ω - 1M	1Ω - 4.7M	.130 [3.3]	.044[1.1]	.012 [.3]

TYPICAL PERFORMANCE

Thermal Shock (-55° to +125°C)	±0.2%
Overload (2.5x W, 5S, NTE 2x rated V)	±1%
Low Temp. Operation (-55°C, 100 Hrs)	±0.5%
High Temp. Exposure (125°C, 100hrs)	±0.5%
Temperature Coefficient, 10Ω to 1M (measured on leadwires 3mm from body)	±250ppm/°C std (available to 25ppm)
Resistance to Solder Heat	±0.2%
Moisture Resistance	±2%
Load Life (1000 hrs.)	±1.0%
Operating Temperature	-55 to +125°C
Dielectric Strength	200V (50V MFA1/20)
Product Marking	unmarked**

* Also available with marking of 2 digit resistance code (specify opt."A"), or with a color dot (opt. "C", color of dot to be coordinated between RCD and customer).

DERATING



P/N DESIGNATION: **MFA1/16** - **1001** - **F** **B** **W**

RCD Type _____
Options: A, C, or as assigned by RCD (leave blank for standard)
Resis. Code: use 4-digit code if tol. is 0.5% or 1% (1R00=1Ω, 10R0=10Ω, 1000=100Ω, 1001=1KΩ); use 3 digit code if tol. is 2% or greater (1R0=1Ω, 100=10Ω, 101=100Ω, 102=1KΩ, 103=10K, 104=100K, 105=1M)
Tol.: B=0.1%, C=.25%, D=.5%, F=1%, G=2%, J=5%, K=10%
Packaging: B=Bulk, T=T&R (MFA1/10 only)
Optional TC: 25=25ppm, 50=50ppm, 101=100ppm (leave blank for std)
Termination Finish: W= RoHS compliant, Q= Tin/ Lead (leave blank if either is acceptable)