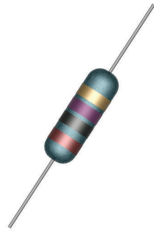


# MF Series

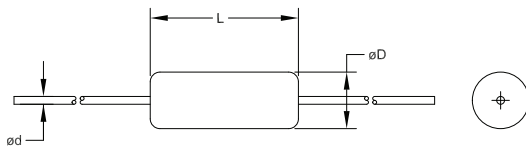
Film Resistors



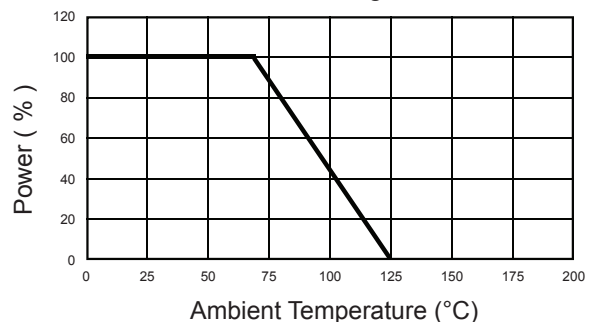
- Resistances from 0.1 Ohm to 5M Ohms
- Power Rating to 3 Watts
- Resistance Tolerances to  $\pm 0.1\%$
- TCR's to  $\pm 5\text{ppm}/\text{C}$
- Convenient RN Type Package Styles

## SPECIFICATIONS

Type	MF50	MF55	MF60	MF65	MF70	MF75
MIL-R-10509F	RN50	RN55	RN60	RN65	RN70	RN75
Resistance Range	0.1 Ohms to 5M Ohms					
Power rating (70°C)	0.16W	0.25W	0.50W	1.0W	2.0W	3.0W
Tolerances	0.1% / 0.25% / 0.5% / 1% / 5%					
Temperature Coefficient	5 / 10 / 15 / 25 / 50ppm/°C					
Operating Voltage (Umax)	200V	250V	300V	350V	450V	500V
Short Time Overload Voltage	400V	500V	600V	700V	900V	1000V
Operating Temperature Range	-55 to 125°C					
Resistance to Solder Heat (260°C for 3.0 secs.)	$\pm 0.25\% + 0.05\Omega$					
Insulation Resistance	>1G					
Insulation Voltage	>500V					
$\Delta R/R$ max. after 1000h	$\leq 1\%$					
Stability	0.5%					
Dimensions in mm [inches]						
L ( MAX )	3.8 [ 0.150 ]	6.0 [ 0.24 ]	10.0 [ 0.394 ]	12 [ 0.472 ]	16.0 [ 0.630 ]	18.0 [ 0.709 ]
D ( MAX )	2.0 [ 0.078 ]	2.5 [ 0.098 ]	3.5 [ 0.138 ]	4.5 [ 0.177 ]	5.5 [ 0.217 ]	6.5 [ 0.256 ]
d	0.5 $\pm$ 0.05 [0.020 $\pm$ 0.002]	0.6 $\pm$ 0.05 [0.024 $\pm$ 0.002]	0.6 $\pm$ 0.05 [0.024 $\pm$ 0.002]	0.7 $\pm$ 0.05 [0.028 $\pm$ 0.002]	0.8 $\pm$ 0.05 [0.032 $\pm$ 0.002]	0.8 $\pm$ 0.1 [0.032 $\pm$ 0.004]



Power Derating Curve



## Ordering Information

Part Description: Part Type - Resistance - Tolerance - TCR  
 MF55 100K Ohms 0.5% 25ppm