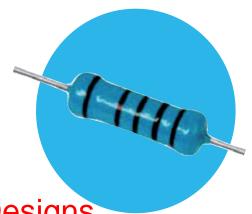
Resistors

Commercial Grade Metal Film Resistor

CMF Series

- Metal film resistor
- Conformal coating
- Power ratings from 1/8W to 3W
- Resistance range from 10Ω to $1M\Omega$





Not Recommended for New Designs

All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

Electrical Data

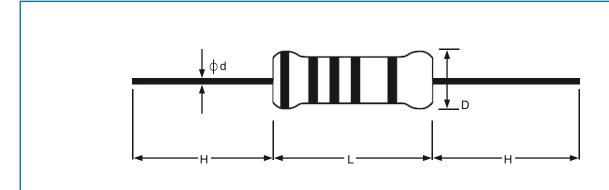
IRC Type	Power Rating at 70°C (W)	Resistance Range (Ohms)	Tolerance (±%)	TCR (±ppm/°C)	Max. Working Voltage (V)	Max. Overload Voltage (V)	Dielectric Withstanding Voltage (V)	
Standard Size								
CMF-1/8	0.125	10 - 1M	1	100	200	400	400	
CMF-1/4	0.25				250	500	500	
CMF-1/2	0.5				350	700	700	
CMF-1	1				500	1000	1000	
CMF-2	2				500	1000	1000	
CMF-3	3				500	1000	1000	

Environmental Data

Short-time overload	$\Delta R/R \le (\pm 0.5\% + 0.05\Omega)$, with no evidence of mechanical damage.			
Dielectric withstanding voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.			
Terminal strength	No evidence of mechanical damage.			
Resistance to Soldering heat	$\Delta R/R \le (\pm 1\% + 0.05\Omega)$, with no evidence of mechanical damage.			
Pulse Overload	$\Delta R/R \le (\pm 1\% + 0.05\Omega)$, with no evidence of mechanical damage.			
Solderability	Minimum 95% coverage.			
Resistance to solvent	No deterioration of protective coating and markings.			
Temperature cycling	$\Delta R/R \le (\pm 1\% + 0.05\Omega)$, with no evidence of mechanical damage.			
Load life in humidity	Standard type: $\Delta R/R \pm 3\%$ for <100K Ω , $\pm 5\%$ for ≥ 100 K Ω ;			
Load life	Standard type: $\Delta R/R \pm 1.5\%$ Flame retardant type: R/R $\pm 5\%$			



CMF Series Not Recommended for New Designs

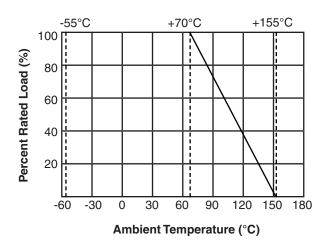


		Dimensions (mm)		
	IRC Type	D (max.)	L (max.)	d (±0.02)	H (±3)
Standard Size	CMF-1/8	1.85	3.5	0.5	28
	CMF-1/4	2.5	6.8	0.6	28
	CMF-1/2	3.5	10.0	0.6	28
	CMF-1	5.0	12.0	0.7	28
	CMF-2	5.5	16.0	0.8	28
	CMF-3	6.5	17.5	0.8	28

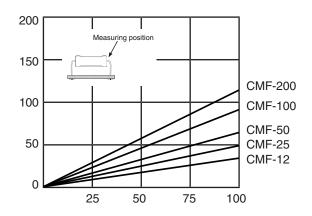


CMF Series Not Recommended for New Designs

Derating Curve



Hot Spot Temperature Curve



Ordering Data

Specify type, resistance, tolerance, RoHS-Compliance and packaging. This example is for a Metal Film Resistor, 1-watt, 1000Ω resistor.

Sample Part No. · · · · · · · · · · · · · · · · · · ·	CMF] - <u>L</u>	1	1001	F	LF	TR
IRC Type·····			•				
CMF - Metal Film Resistor			•				
Power Rating · · · · · (See specs table)							
Resistance Value (EIA 4-digit code) ····································	• • • • •	• • • •	• • •	:	•		
Tolerance $\cdot \cdot \cdot$	• • • • •	•••	• • •	• • • • •	:	•	
RoHS- compliance · · · · · · · · · · · · · · · · · · ·	• • • •	• • • •	• • •	• • • • •	• • • •	:	
Packaging · · · · · · · · · · · · · · · · · · ·	• • • •	• • • •	• •	• • • • •	• • •	• • • •	: