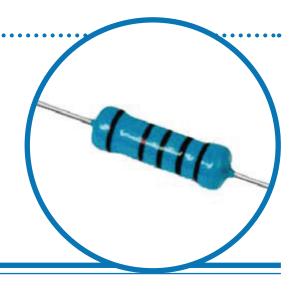
Commercial Grade Metal Film Resistor



CMF Series

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

NOT RECOMMENDED FOR NEW DESIGNS



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		1	100	200	400	400	
CMF-1/4	0.25	10 - 1M			250	500	500	
CMF-1/2	0.5				350	700	700	
CMF-1	1			100	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 $\pm 5\%$				

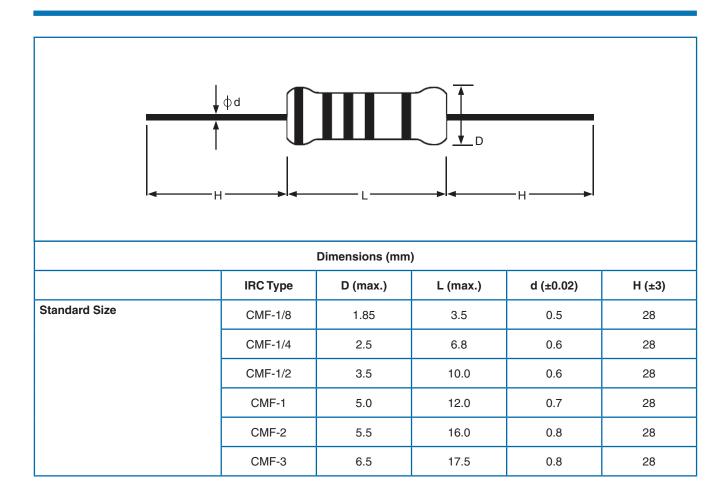








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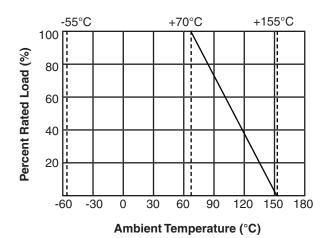




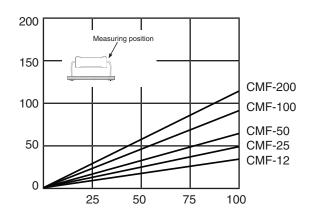


CMF Series NOT RECOMMENDED FOR NEW DESIGNS

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	-	1	1001	F	LI	TR
IRC Type · · · · · · · · · · · · · · · · · · ·			:				
CMF - Metal Film Resistor							
Power Rating · · · · · · · · · · · · · · · · · · ·						•	
Resistance Value (EIA 4-digit code) ····································					•	•	
Tolerance		•••	•	• • • • •	•••		
RoHS- compliance	• • • •	• • •	• •		• • •	:	•
Packaging · · · · · · · · · · · · · · · · · · ·	• • • • •	• • •	• • •	• • • •	• • • •	• • •	••••

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CMF Series Issue May 2009 Sheet 3 of 3

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