Commercial Grade Metal Film Resistor

CMF Series

Features:

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

NOT RECOMMENDED FOR NEW DESIGNS

Electrical Data

IRC Туре	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	$\Delta R/R \leq (\pm 1\% + 0.05\Omega)$, 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 ≥100K Ω ;		
Load life	Standard type: Δ R/R ±1.5% Flame retardant type: R/R ±5%		



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Electronics

Commercial Grade Metal Film



Resistor CMF Series

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	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

General Note

Commercial Grade Metal Film

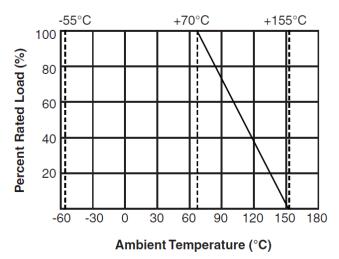
Resistor

NOT RECOMMENDED FOR NEW DESIGNS

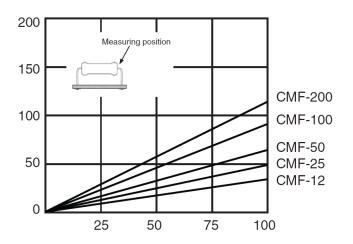


CMF Series

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 LF TR
IRC Type CMF - Metal Film Resistor
Power Rating
Resistance Value (EIA 4-digit code) ($\geq 100\Omega$ - First 3 significant digits plus 4th digit multiplier) Example: 100 ohms = 1000, 1000 ohms = 1001 ($>100\Omega$ - "R" is used to designate decimal) Example: $10\Omega = 10R0$, $1\Omega = 1R00$, $51\Omega = 51R0$
Tolerance $F = \pm 1\%; G = \pm 2\%; J = \pm 5\%$
RoHS- compliance LF = RoHS compliant construction
Packaging TR = tape and reel only

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