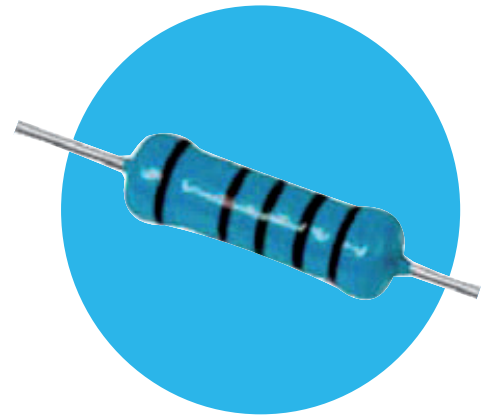


Commercial Grade Metal Film Resistor

CMF Series

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



 All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

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	$\Delta R/R \leq (\pm 0.5\% + 0.05\Omega)$, 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	$\Delta R/R \leq (\pm 1\% + 0.05\Omega)$, with no evidence of mechanical damage.
Solderability	Minimum 95% coverage.
Resistance to solvent	No deterioration of protective coating and markings.
Temperature cycling	$\Delta R/R \leq (\pm 1\% + 0.05\Omega)$, with no evidence of mechanical damage.
Load life in humidity	Standard type: $\Delta R/R \pm 3\%$ for $< 100K\Omega$, $\pm 5\%$ for $\geq 100K\Omega$;
Load life	Standard type: $\Delta R/R \pm 1.5\%$ Flame retardant type: $R/R \pm 5\%$

General Note

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All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

CMF Series



Dimensions (mm)

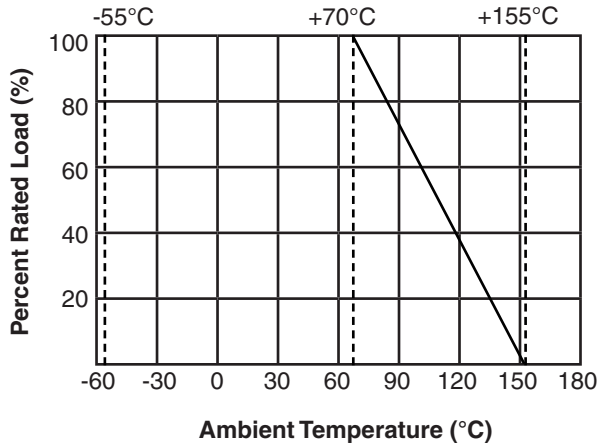
	IRC Type	D (max.)	L (max.)	d (± 0.02)	H (± 3)
Standard Size	CMF-1/8	1.85	3.5	0.5	28
	CMF-1/4	2.5	6.8	0.6	28
	CMF-1/2	3.5	10.0	0.6	28
	CMF-1	5.0	12.0	0.7	28
	CMF-2	5.5	16.0	0.8	28
	CMF-3	6.5	17.5	0.8	28

General Note

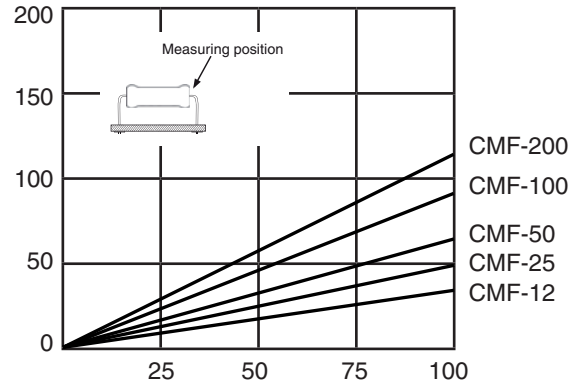
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CMF Series

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
(See specs table)

Resistance Value (EIA 4-digit code)
(≥100Ω - First 3 significant digits plus 4th digit multiplier)
Example: 100 ohms = 1000, 1000 ohms = 1001
(>100Ω - "R" is used to designate decimal)
Example: 10Ω = 10R0, 1Ω = 1R00, 51Ω = 51R0

Tolerance
F = ±1%; G = ±2%; J = ±5%

RoHS-compliance
LF = RoHS compliant construction

Packaging
TR = tape and reel only

General Note

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