

Metal Film Resistors, Special Purpose, Fusible, Flameproof



FEATURES

- Special filming and coating processes
- Fusible - circuit protection in case of other component failure
- Flameproof - meets EIA RS-325, will not flame when overloaded
- Tape and reel packaging is standard
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


RoHS*
COMPLIANT

Note

* Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{70\text{ }^{\circ}\text{C}}$ W	RESISTANCE RANGE ⁽¹⁾ Ω	TOLERANCE $\pm \%$	TEMPERATURE COEFFICIENT $\pm \text{ppm}/^{\circ}\text{C}$
CMF55..39	CMF-55-39	0.25	4 to 10K	1	100
CMF60..64	CMF-60-64	0.50	4 to 23K	1	100

Note

⁽¹⁾ Contact factory for extended values

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	CMF55..39	CMF60..64
Rated Dissipation at 70 °C	W	0.25	0.50
Maximum Flame Test Voltage	V_{RMS}	350	500
Dielectric Strength	V_{AC}	450	750
Insulation Resistance	Ω	$\geq 10^{10}$	$\geq 10^{10}$
Operating Temperature Range	$^{\circ}\text{C}$	- 65/+ 165	- 65/+ 165
Weight (Max.)	g	0.20	0.50

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: CMF55100R00FKRE39 (preferred part numbering format)

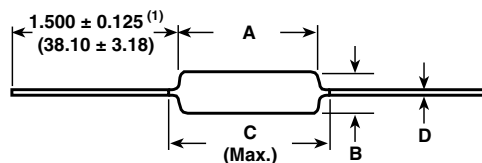
C	M	F	5	5	1	0	0	R	0	0	F	K	R	E	3	9	
GLOBAL MODEL		RESISTANCE VALUE				TOLERANCE CODE		TEMPERATURE COEFFICIENT		PACKAGING				SPECIAL			
CMF55 CMF60		R = Ω K = k Ω 4R0000 = 4.0 Ω 680R00 = 680 Ω 23K000 = 23 k Ω				F = $\pm 1 \%$		K = 100 ppm		EK = Lead (Pb)-free, bulk EA = Lead (Pb)-free, T/R (full) EB = Lead (Pb)-free, T/R (1000 pieces) BF = Tin/Lead, bulk RE = Tin/Lead, T/R (full) R6 = Tin/Lead, T/R (1000 pieces)				39 = Fusible CMF55 64 = Fusible CMF60			

Historical Part Number example: CMF-55-391000F R36 (will continue to be accepted)

CMF-55-39	1000	F	R36
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING

Note

- For additional information on packaging, refer to the Through-hole Resistor Packaging document (www.vishay.com/doc?31544).

DIMENSIONS in inches (millimeters)

Note

- (1) Lead length for product in bulk pack. For product supplied in tape and reel, the actual lead length would be based on the body size, tape spacing and lead trim.

GLOBAL MODEL	A	B	C (Max.)	D
CMF55..39	0.240 ± 0.020 (6.10 ± 0.51)	0.090 ± 0.008 (2.29 ± 0.21)	0.278 (7.06)	0.025 ± 0.002 (0.64 ± 0.05)
CMF60..64	0.370 ± 0.035 (9.40 ± 0.89)	0.145 ± 0.010 (3.68 ± 0.25)	0.425 (10.80)	0.032 ± 0.002 (0.81 ± 0.05)

MARKING

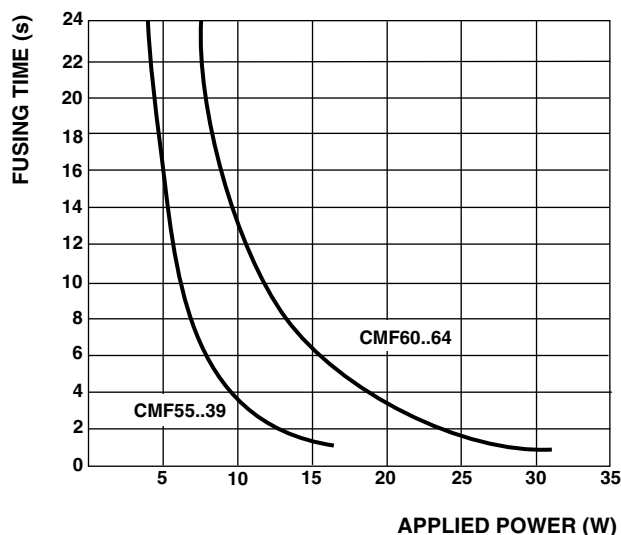
Model: C55-39 = CMF55-39, C60-64 = CMF60-64
Temperature coefficient: T1 = 100 ppm

CMF55-39, CMF60-64: (4 lines)

C55-39	Model
1.47 kΩ	Value
1 % T1	Tolerance and TC
1130	4-digit date code

Note

- Fusing time graphs represent an average for the resistance value range. Low resistance parts require higher power to fuse than high resistance parts. It is recommended that values less than 200 Ω be evaluated for specific applications.



FUSIBLE, FLAMEPROOF
(Typical Fusing Times)



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