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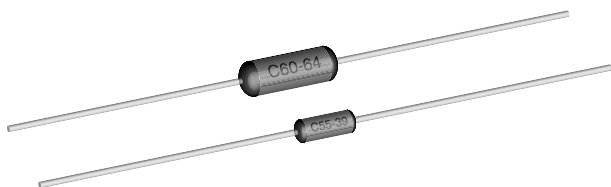


www.vishay.com

# CMF Fusible

Vishay Dale

## 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](http://www.vishay.com/doc?99912)



**RoHS\***  
Available

### Note

\* This datasheet provides information about parts that are RoHS-compliant and/or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information/tables in this datasheet for details.

### STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{70\text{ }^\circ\text{C}}$ W	RESISTANCE RANGE <sup>(1)</sup> $\Omega$	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
CMF70..5	CMF-70-5	1.5	4 to 30K	1	100

### Note

<sup>(1)</sup> Contact factory for extended values

### TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	CMF55..39	CMF60..64	CMF70..5
Rated Dissipation at 70 °C	W	0.25	0.50	1.5
Maximum Flame Test Voltage	$V_{\text{RMS}}$	350	500	1000
Dielectric Strength	$V_{\text{AC}}$	450	750	900
Insulation Resistance	$\Omega$	$\geq 10^{10}$	$\geq 10^{10}$	$\geq 10^{10}$
Operating Temperature Range	$^\circ\text{C}$	-65/+165	-65/+165	-65/+165
Weight (Max.)	g	0.28	0.50	1.30

### GLOBAL PART NUMBER INFORMATION

Global Part Numbering: CMF55100R00FKRE39 (preferred part numbering format)



GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	TEMP. COEFFICIENT	PACKAGING	SPECIAL
CMF55 CMF60 CMF70	R = $\Omega$ K = k $\Omega$ 4R0000 = 4.0 $\Omega$ 680R00 = 680 $\Omega$ 23K000 = 23 k $\Omega$	F = $\pm 1 \%$	K = 100 ppm	<b>EK</b> = Lead (Pb)-free, bulk <b>EA</b> = Lead (Pb)-free, T/R (full) <b>EB</b> = Lead (Pb)-free, T/R (1000 pieces; except 70's) <b>BF</b> = Tin/lead, bulk <b>RE</b> = Tin/lead, T/R (full; except 70's) <b>CP</b> = Tin/lead, T/R (full; 70's only) <b>R6</b> = Tin/lead, T/R (1000 pieces; except 70's)	<b>39</b> = Fusible CMF 55 <b>64</b> = Fusible CMF60 <b>5</b> = Fusible CMF70

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](http://www.vishay.com/doc?31544)).

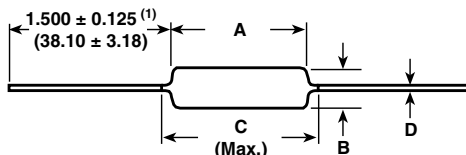


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### DIMENSIONS in inches (millimeters)



#### Note

<sup>(1)</sup> 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)	0.290 (7.37)	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)
CMF70..5	0.562 ± 0.031 (14.27 ± 0.79)	0.230 ± 0.015 (5.84 ± 0.38)	0.687 (17.54)	0.032 ± 0.002 (0.81 ± 0.05)

### MARKING

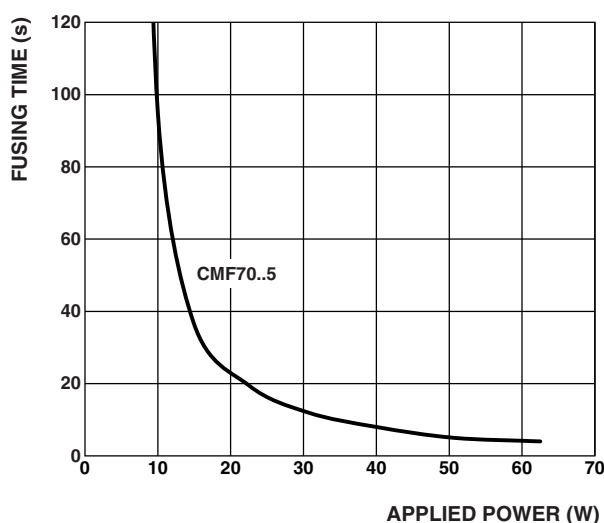
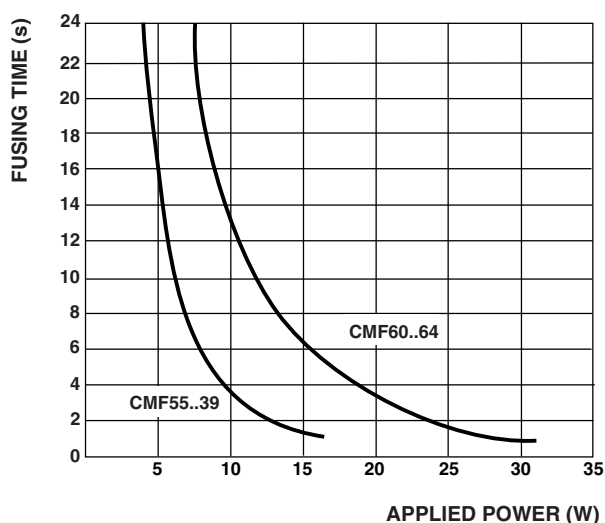
Model: C55-39 = CMF55-39, C60-64 = CMF60-64, C70-5 = CMF70-5  
 Temperature coefficient: T1 = 100 ppm

CMF55-39, CMF60-64, CMF70-5: (5 lines)

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

### FUSIBLE, FLAMEPROOF

#### (Typical Fusing Times)



#### 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.



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