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Vishay Dale

# Metal Film Resistors, Axial, Special Purpose, Fusible, Flameproof



### **FEATURES**

- Special filming and coating processes
- Fusible circuit protection in case of other component failure







- Tape and reel packaging is standard
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

#### Note

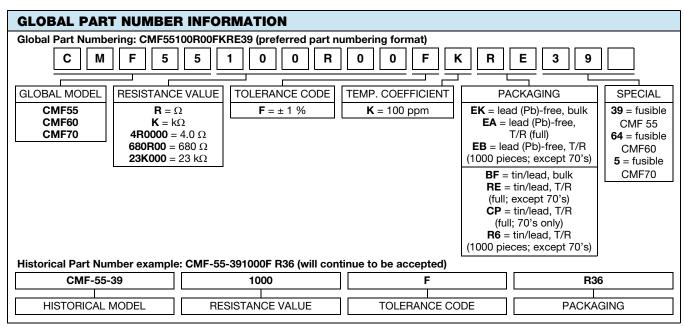
<sup>\*</sup> This datasheet provides information about parts that are RoHS-compliant and/or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details.

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P <sub>70 °C</sub> W	RESISTANCE RANGE <sup>(1)</sup> Ω	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C			
CMF5539	CMF-55-39	0.25	4 to 10K	1	100			
CMF6064	CMF-60-64	0.50	4 to 23K	1	100			
CMF705	CMF-70-5	1.5	4 to 30K	1	100			

#### Note

(1) Contact factory for extended values

TECHNICAL SPECIFICATIONS							
PARAMETER	UNIT	CMF5539	CMF6064	CMF705			
Rated Dissipation at 70 °C	W	0.25	0.50	1.5			
Maximum Flame Test Voltage	V <sub>RMS</sub>	350	500	1000			
Dielectric Strength	V <sub>AC</sub>	450	750	900			
Insulation Resistance	Ω	≥ 10 <sup>10</sup>	≥ 10 <sup>10</sup>	≥ 10 <sup>10</sup>			
Operating Temperature Range	°C	-65/+165	-65/+165	-65/+165			
Weight (Max.)	g	0.28	0.50	1.30			

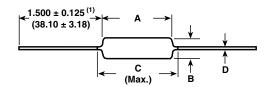


### Note

• 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	В	C (Max.)	D
CMF5539	0.240 ± 0.020	$0.090 \pm 0.008$	0.290	$0.025 \pm 0.002$
	(6.10 ± 0.51)	(2.29 ± 0.21)	(7.37)	(0.64 ± 0.05)
CMF6064	0.370 ± 0.035	0.145 ± 0.010	0.425	0.032 ± 0.002
	(9.40 ± 0.89)	(3.68 ± 0.25)	(10.80)	(0.81 ± 0.05)
CMF705	0.562 ± 0.031	0.230 ± 0.015	0.687	0.032 ± 0.002
	(14.27 ± 0.79)	(5.84 ± 0.38)	(17.54)	(0.81 ± 0.05)

## **MARKING**

Model: C55-39 = CMF55-39, C60-64 = CMF60-64, C70-5 = CMF70-5

Temperature coefficient: T1 = 100 ppm

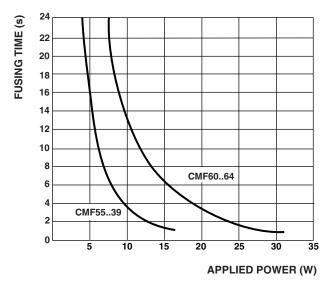
CMF55-39, CMF60-64, CMF70-5: (5 lines)

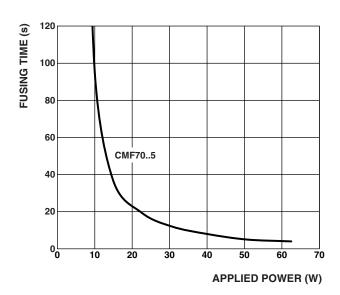
DALE Manufacturer C55-39 Model 1.47 kΩ Value

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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