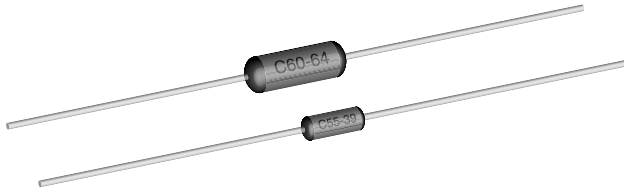


Metal Film Resistors, Special Purpose, Fusible, Flameproof



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
- Compliant to RoHS directive 2002/95/EC



RoHS*
COMPLIANT

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | |
|------------------------------------|------------------|---|----------------------------------|-----------------------|--|
| GLOBAL MODEL | HISTORICAL MODEL | POWER RATING $P_{70^{\circ}\text{C}}$ 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

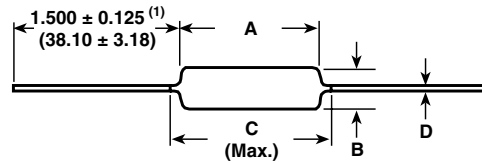
| | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|----------------|---|-------------------------|---|--|---|---|---|--|---|---|---|--|
| C | M | F | 5 | 5 | 1 | 0 | 0 | R | 0 | 0 | F | K | R | E | 3 | 9 | |
| GLOBAL MODEL | | RESISTANCE VALUE | | | TOLERANCE CODE | | TEMPERATURE COEFFICIENT | | PACKAGING | | | | SPECIAL | | | | |
| CMF55 CMF60 | | $R = \Omega$ $K = k\Omega$ 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-55-39100F R36 (will continue to be accepted)

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

* Pb containing terminations are not RoHS compliant, exemptions may apply.

DIMENSIONS in inches (millimeters)



Note

⁽¹⁾ 1.08 ± 0.125 (27.43 ± 3.18) if tape and reel

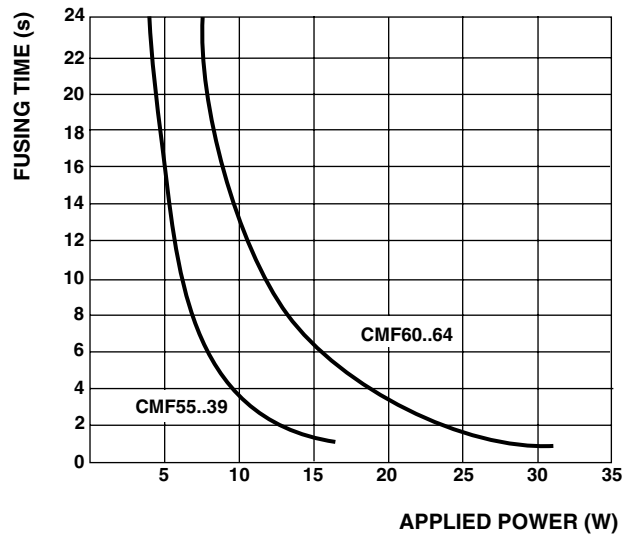
| GLOBAL MODEL | A | B | C (Max.) | D |
|--------------|------------------------------------|------------------------------------|------------------|------------------------------------|
| CMF55..39 | 0.240 ± 0.020 (6.10 ± 0.51) | 0.090 ± 0.008 (2.29 ± 0.21) | 0.278 (7.06) | 0.025 ± 0.002 (0.64 ± 0.05) |
| 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

- DALE
- Model (C55-39 or C60-64)
- Value
- Tolerance, Temperature coefficient
- 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)



Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk and agree to fully indemnify and hold Vishay and its distributors harmless from and against any and all claims, liabilities, expenses and damages arising or resulting in connection with such use or sale, including attorneys fees, even if such claim alleges that Vishay or its distributor was negligent regarding the design or manufacture of the part. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.