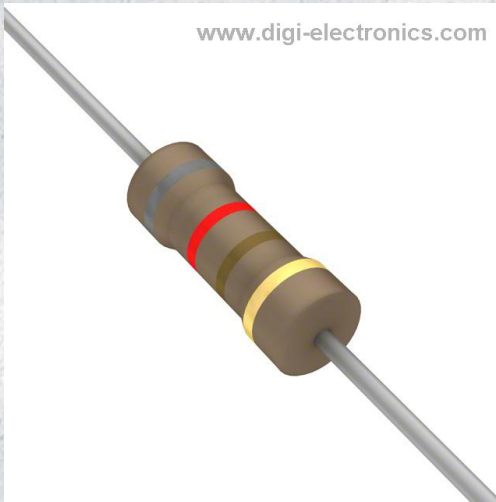


CFM12JT820R Datasheet



<https://www.DiGi-Electronics.com>

| | |
|------------------------------|--|
| DiGi Electronics Part Number | CFM12JT820R-DG |
| Manufacturer | Stackpole Electronics Inc |
| Manufacturer Product Number | CFM12JT820R |
| Description | RES 820 OHM 5% 1/2W AXIAL |
| Detailed Description | 820 Ohms \pm 5% 0.5W, 1/2W Through Hole Resistor Axial Flame Retardant Coating, Safety Carbon Film |

This model CFM12JT820R is available at DiGi Electronics.

DiGi Electronics offers a global database of semiconductor and electronic component datasheets.

We welcome your inquiries regarding pricing, lead time, or other product-related questions.

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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

CFM12JT820R

Series:

CFM

Resistance:

820 Ohms

Power (Watts):

0.5W, 1/2W

Features:

Flame Retardant Coating, Safety

Operating Temperature:

-55°C ~ 155°C

Supplier Device Package:

Axial

Height - Seated (Max):

-

Failure Rate:

-

Manufacturer:

Stackpole Electronics Inc

Product Status:

Active

Tolerance:

±5%

Composition:

Carbon Film

Temperature Coefficient:

0/ -400ppm/°C

Package / Case:

Axial

Size / Dimension:

0.091" Dia x 0.256" L (2.30mm x 6.50mm)

Number of Terminations:

2

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8533.10.0065

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

CF / CFM Series

Carbon Film Resistor

Stackpole Electronics, Inc.
Resistive Product Solutions

Features:

- General purpose resistor ideal for commercial/industrial applications
- Flame retardant coatings standard
- Flameproof version available as CFF and CFFM
- Panasert available on selected sizes - contact Stackpole
- Auto sequencing/insertion compatible
- CFM (mini) ideal choice when size constraints apply
- Cut and formed products are available on select sizes - contact Stackpole
- Standard lead wire for CF and CFM is copper plated steel, with 100% tin over plate
- 100% tin plate on copper wire is available as type CFQ and CFQM
- RoHS compliant, REACH compliant, lead free and halogen free



Electrical Specifications - CF, CFQ, PCF

| Type/Code | Size | Power Rating (W) @ 70°C | Maximum Working Voltage (V) ⁽¹⁾ | Maximum Overload Voltage (V) | Dielectric Withstanding Voltage (V) | TCR (ppm/°C) per Ohmic Range | Ohmic Range (Ω) and Tolerance | |
|--------------|------|----------------------------|--|------------------------------------|---|----------------------------------|----------------------------------|---------|
| | | | | | | | 2% | 5% |
| CF, CFQ | 18 | 0.125 | 250 | 500 | 350 | < 10Ω = ± 400 ppm/°C | 10 - 1M | 1 - 22M |
| CF, CFQ, PCF | 14 | 0.25 | 350 | 600 | 350 | 10Ω to 9.99KΩ = 0 ~ -400 ppm/°C | 1 - 1M | 1 - 22M |
| CF, CFQ | 12 | 0.5 | 350 | 700 | 600 | 10KΩ to 99KΩ = 0 ~ -500 ppm/°C | 10 - 1M | 1 - 22M |
| CF, CFQ | 1 | 1 | 500 | 1000 | 600 | 100KΩ to 999KΩ = 0 ~ -850 ppm/°C | 1 - 1M | 1 - 10M |
| CF, CFQ | 2 | 2 | 500 | 1000 | 600 | 1MΩ and above = 0 ~ -1500 ppm/°C | 1 - 1M | 1 - 10M |

(1) Lesser of $\sqrt{P \cdot R}$ or maximum working voltage.

Electrical Specifications - CFM, CFQM, PCFM

| Type/Code | Size | Power Rating (W) @ 70°C | Maximum Working Voltage (V) ⁽¹⁾ | Maximum Overload Voltage (V) | Dielectric Withstanding Voltage (V) | TCR (ppm/°C) per Ohmic Range | Ohmic Range (Ω) and Tolerance | |
|-------------------|------|----------------------------|--|------------------------------------|---|---|----------------------------------|---------|
| | | | | | | | 2% | 5% |
| CFM, CFQM | 14 | 0.25 | 250 | 500 | 350 | < 10Ω = ± 400 ppm/°C | 1 - 1M | 1 - 10M |
| CFM, CFQM PCFM | 12 | 0.5 | 350 | 600 | 350 | 10Ω to 9.99KΩ = 0 ~ -400 ppm/°C 10KΩ to 99KΩ = 0 ~ -500 ppm/°C 100KΩ to 999KΩ = 0 ~ -850 ppm/°C | 1 - 1M | 1 - 10M |
| CFM, CFQM | 1 | 1 | 600 | 1000 | 600 | 1MΩ and above = 0 ~ -1500 ppm/°C | 1 - 1M | 1 - 10M |

(1) Lesser of $\sqrt{P \cdot R}$ or maximum working voltage.

Electrical Specifications - CFF, CFFM

| Type/Code | Size | Power Rating (W) @ 70°C | Maximum Working Voltage (V) ⁽¹⁾ | Maximum Overload Voltage (V) | Dielectric Withstanding Voltage (V) | TCR (ppm/°C) per Ohmic Range | Ohmic Range (Ω) and Tolerance | |
|-----------|------|----------------------------|--|------------------------------------|---|----------------------------------|----------------------------------|--|
| | | | | | | | 2%, 5% | |
| CFF | 18 | 0.166 | 200 | 400 | 300 | < 10Ω = ± 400 ppm/°C | 1 - 2.2M | |
| | 14 | 0.25 | 300 | 600 | 500 | 10Ω to 9.99KΩ = 0 ~ -400 ppm/°C | 1 - 5.1M | |
| | 12 | 0.5 | 350 | 700 | 500 | 10KΩ to 99KΩ = 0 ~ -500 ppm/°C | 1 - 5.1M | |
| CFFM | 14 | 0.25 | 250 | 500 | 300 | 100KΩ to 999KΩ = 0 ~ -850 ppm/°C | 1 - 2.2M | |
| | 12 | 0.5 | 300 | 600 | 500 | 1MΩ and above = 0 ~ -1500 ppm/°C | 1 - 2.2M | |

(1) Lesser of $\sqrt{P \cdot R}$ or maximum working voltage.

CF / CFM Series

Carbon Film Resistor

Stackpole Electronics, Inc.
Resistive Product Solutions

Mechanical Specifications



| Type/Code | Size | A Body Length | B Body Diameter | C Lead Length (ref.) | D - Lead Diameter | Unit |
|-------------------|------|-------------------------------|------------------------------|-------------------------------|------------------------------|--------------|
| CF | 18 | 0.130 ± 0.012 3.30 ± 0.30 | 0.067 ± 0.012 1.70 ± 0.30 | 1.102 ± 0.118 28.00 ± 3.00 | 0.016 ± 0.003 0.40 ± 0.08 | inches mm |
| CFQ | 18 | 0.130 ± 0.012 3.30 ± 0.30 | 0.067 ± 0.012 1.70 ± 0.30 | 1.102 ± 0.118 28.00 ± 3.00 | 0.018 ± 0.003 0.45 ± 0.08 | inches mm |
| CFF | 18 | 0.126 ± 0.008 3.20 ± 0.20 | 0.073 ± 0.008 1.85 ± 0.20 | 1.102 ± 0.118 28.00 ± 3.00 | 0.018 ± 0.002 0.45 ± 0.05 | inches mm |
| CF, CFF, CFQ, PCF | 14 | 0.236 ± 0.012 6.00 ± 0.30 | 0.091 ± 0.012 2.30 ± 0.30 | 1.102 ± 0.118 28.00 ± 3.00 | 0.022 ± 0.003 0.55 ± 0.08 | inches mm |
| CFFM | 14 | 0.126 ± 0.008 3.20 ± 0.20 | 0.073 ± 0.008 1.85 ± 0.20 | 1.102 ± 0.118 28.00 ± 3.00 | 0.018 ± 0.002 0.45 ± 0.05 | inches mm |
| CFM | 14 | 0.130 ± 0.012 3.30 ± 0.30 | 0.067 ± 0.012 1.70 ± 0.30 | 1.102 ± 0.118 28.00 ± 3.00 | 0.016 ± 0.003 0.40 ± 0.08 | inches mm |
| CFQM | 14 | 0.130 ± 0.012 3.30 ± 0.30 | 0.067 ± 0.012 1.70 ± 0.30 | 1.102 ± 0.118 28.00 ± 3.00 | 0.018 ± 0.003 0.45 ± 0.08 | inches mm |
| CF | 12 | 0.335 ± 0.039 8.50 ± 1.00 | 0.106 ± 0.020 2.70 ± 0.50 | 1.102 ± 0.118 28.00 ± 3.00 | 0.022 ± 0.003 0.55 ± 0.08 | inches mm |
| CFF, CFQ | 12 | 0.335 ± 0.039 8.50 ± 1.00 | 0.106 ± 0.020 2.70 ± 0.50 | 1.102 ± 0.118 28.00 ± 3.00 | 0.028 ± 0.004 0.70 ± 0.10 | inches mm |
| CFM, CFQM, CFFM | 12 | 0.236 ± 0.012 6.00 ± 0.30 | 0.091 ± 0.012 2.30 ± 0.30 | 1.102 ± 0.118 28.00 ± 3.00 | 0.022 ± 0.003 0.55 ± 0.08 | inches mm |
| CF, CFQ | 1 | 0.433 ± 0.039 11.00 ± 1.00 | 0.177 ± 0.020 4.50 ± 0.50 | 1.181 ± 0.118 30.00 ± 3.00 | 0.031 ± 0.004 0.80 ± 0.10 | inches mm |
| CFM, CFQM | 1 | 0.354 ± 0.020 9.00 ± 0.50 | 0.138 ± 0.020 3.50 ± 0.50 | 1.102 ± 0.118 28.00 ± 3.00 | 0.028 ± 0.002 0.70 ± 0.05 | inches mm |
| CF, CFQ | 2 | 0.591 ± 0.039 15.00 ± 1.00 | 0.197 ± 0.020 5.00 ± 0.50 | 1.339 ± 0.157 34.00 ± 4.00 | 0.031 ± 0.004 0.80 ± 0.10 | inches mm |

Performance Characteristics

| Test | Test Method | Typical Result | | | Test Limit | | |
|------------------------------|---------------------------------|----------------|---------------|------------|--|---------------|------------|
| | | 1Ω ~ 91KΩ | 100KΩ ~ 910KΩ | 1MΩ ~ 22MΩ | 1Ω ~ 91KΩ | 100KΩ ~ 910KΩ | 1MΩ ~ 22MΩ |
| Current Noise | MIL-STD 202, Method 308 | 0.15μ V/V | 0.32μ V/V | 0.54μ V/V | 0.2μ V/V | 0.4μ V/V | 0.6μ V/V |
| Short Time Overload | JIS C5201-1, IEC60115-1, 4.13 | < ±0.25% | | | ≤ ±(0.75% + 0.05Ω) | | |
| Resistance to Soldering Heat | JIS C5201-1, IEC60115-1, 4.18 | < ±0.3% | | | ≤ ±(0.5% + 0.05Ω) | | |
| Rapid Change of Temperature | JIS C5201-1, IEC60115-1, 4.19 | < ±0.3% | | | ≤ ±(1% + 0.05Ω) | | |
| Endurance at 70°C | JIS C5201-1, IEC60115-1, 4.25.1 | < ±1% | | | R < 100KΩ: ≤ ±(2% + 0.05Ω) R ≥ 100KΩ: ≤ ±(3% + 0.05Ω) | | |
| Terminal Strength | MIL-STD 202, Method 211 | < ±0.2% | | | ≤ ±(0.5% + 0.05Ω) | | |
| Damp Heat (Steady state) | JIS C5201-1, IEC60115-1, 4.24 | < ±1.5% | | | R < 100KΩ: ≤ ±(3% + 0.05Ω) R ≥ 100KΩ: ≤ ±(5% + 0.05Ω) | | |

Operating temperature range is -55 to +155°C

Power Derating Curve:



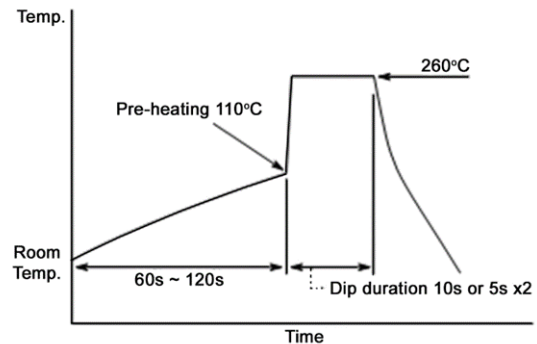
Recommended Soldering Condition

Flow Soldering:

- Pre-heating: 110°C MAX
- Peak temperature/duration: 260°C within 10 seconds (1st, 2nd wave total)
- Temperature profile (see chart on the right)

Iron Soldering:

- 380°C, 5 seconds, once/terminal



Single Pulse Power



Repetitive Pulse Information

If repetitive pulses are applied to resistors, pulse wave form must be less than “Pulse limiting voltage”, “Pulse limiting current” or “Pulse limiting wattage” calculated by the formula below.

$$V_p = K\sqrt{P \times R \times T/t}$$

$$I_p = K\sqrt{P/R \times T/t}$$

$$P_p = K^2 \times P \times T/t$$

Where: V_p : Pulse limiting voltage (V)
 I_p : Pulse limiting current (A)
 P_p : Pulse limiting wattage (W)
 P: Power rating (W)
 R: Nominal resistance (ohm)
 T: Repetitive period (sec.)
 t: Pulse duration (sec.)
 K: Coefficient: 0.8
 [V_r : Rated Voltage (V), I_r : Rated Current (A)]



Note 1: If $T > 10 \rightarrow T = 10$ (sec.), $T/t > 1000 \rightarrow T/t = 1000$.

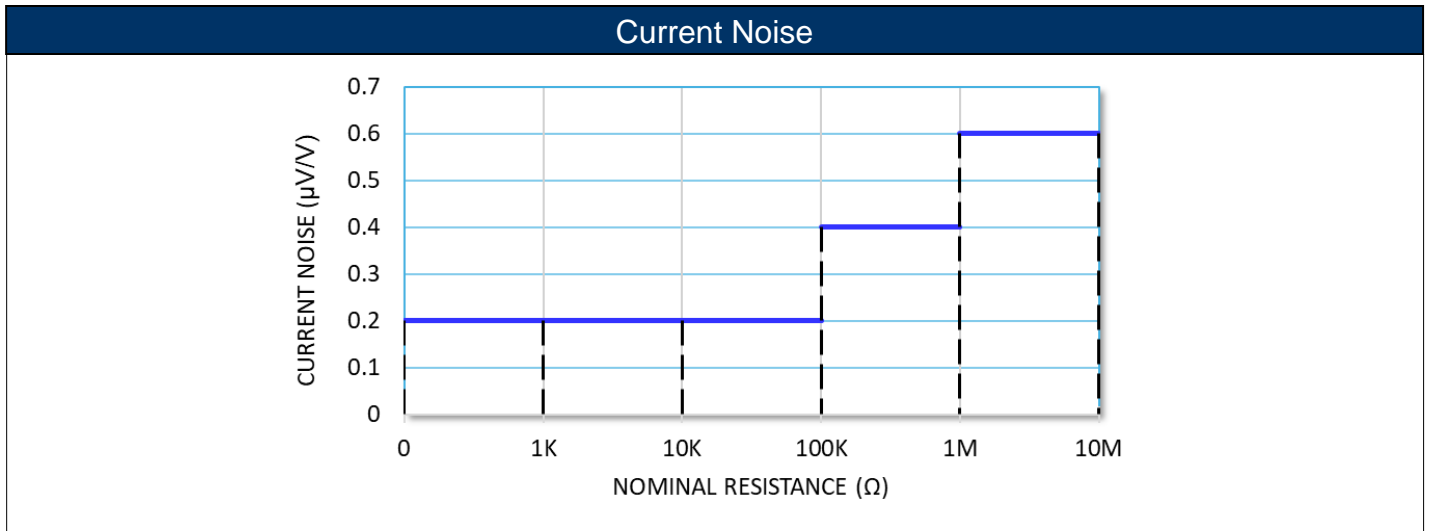
Note 2: If $T > 10$ and $T/t > 1000$, “Pulse Limiting power (single pulse) is applied.”

Note 3: If $V_p < V_r$ ($I_p < I_r$ or $P_p < P$), V_r (I_r , P) is V_p (I_p , P_p).

Note 4: Pulse limiting voltage (Current, Wattage) is applied at less than rated ambient temperature. If ambient temperature is more than the rated temperature (70°C), please decrease power rating according to “Power Derating Curve”.

Note 5: Please assure sufficient margin for use period and conditions for “Pulse limiting voltage”.

Note 6: If the pulse waveform is not square wave, please judge after transform the waveform into square wave according to the “Waveform Transformation to Square Wave”.



Waveform Transformation to Square Wave

1. Discharge curve wave with time constant "t" → Square wave



2. Damping oscillation wave with time constant of envelope "t" → Square wave



3. Half-wave rectification wave → Square wave



4. Triangular wave → Square wave



5. Special wave → Square wave

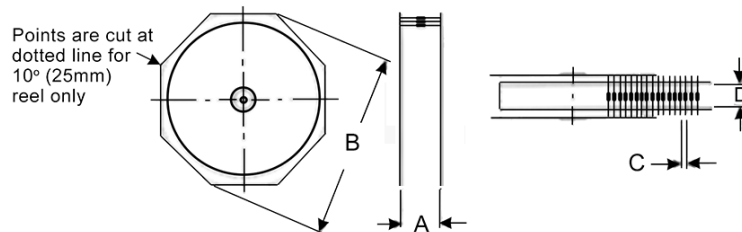


CF / CFM Series

Carbon Film Resistor

Stackpole Electronics, Inc.
Resistive Product Solutions

Reel Specifications



| Type/Code | Size | Class | Tape | A Max ⁽¹⁾ | B Max | C | D | Unit |
|-----------------|------|-------|---------------|----------------------|------------------|-------------------------------|-------------------------------|--------------|
| CF, CFQ | 18 | I | 0.250 6.35 | 2.508 63.70 | 13.504 343.00 | 0.197 ± 0.020 5.00 ± 0.50 | 2.063 ± 0.079 52.40 ± 2.00 | inches mm |
| CFF | 18 | I | 0.250 6.35 | 2.508 63.70 | 13.504 343.00 | 0.197 ± 0.020 5.00 ± 0.50 | 2.063 ± 0.079 52.40 ± 2.00 | inches mm |
| CF, CFQ, CFF | 14 | I | 0.250 6.35 | 2.638 67.00 | 13.504 343.00 | 0.197 ± 0.020 5.00 ± 0.50 | 2.063 ± 0.079 52.40 ± 2.00 | inches mm |
| CF, CFQ, CFF | 12 | I | 0.250 6.35 | 2.736 69.50 | 13.504 343.00 | 0.197 ± 0.020 5.00 ± 0.50 | 2.063 ± 0.079 52.40 ± 2.00 | inches mm |
| CF, CFQ | 1 | I | 0.250 6.35 | 2.972 75.50 | 13.504 343.00 | 0.197 ± 0.020 5.00 ± 0.50 | 2.063 ± 0.079 52.40 ± 2.00 | inches mm |
| CF, CFQ | 2 | I | 0.250 6.35 | 3.130 79.50 | 13.504 343.00 | 0.394 ± 0.020 10.00 ± 0.50 | 2.063 ± 0.079 52.40 ± 2.00 | inches mm |
| CFM, CFQM, CFFM | 14 | I | 0.250 6.35 | 2.508 63.70 | 13.504 343.00 | 0.197 ± 0.020 5.00 ± 0.50 | 2.063 ± 0.079 52.40 ± 2.00 | inches mm |
| CFM, CFQM, CFFM | 12 | I | 0.250 6.35 | 2.638 67.00 | 13.504 343.00 | 0.197 ± 0.020 5.00 ± 0.50 | 2.063 ± 0.079 52.40 ± 2.00 | inches mm |
| CFM, CFQM | 1 | I | 0.250 6.35 | 2.736 69.50 | 13.504 343.00 | 0.197 ± 0.020 5.00 ± 0.50 | 2.063 ± 0.079 52.40 ± 2.00 | inches mm |

Packaging is per EIA-296.

Ammo Packaging Specifications



| Type/Code | Size | A | B | C | Unit |
|-----------|------|-------------------------------|--------------------------------|---------------------------------|--------------|
| CF, CFQ | 16 | 2.953 ± 0.079 75.00 ± 2.00 | 2.756 ± 0.118 70.00 ± 3.00 | 10.039 ± 0.197 255.00 ± 5.00 | inches mm |
| CF, CFQ | 14 | 2.953 ± 0.079 75.00 ± 2.00 | 3.937 ± 0.118 100.00 ± 3.00 | 10.039 ± 0.197 255.00 ± 5.00 | inches mm |
| CF, CFQ | 12 | 2.953 ± 0.079 75.00 ± 2.00 | 2.756 ± 0.118 70.00 ± 3.00 | 10.039 ± 0.197 255.00 ± 5.00 | inches mm |
| CFQ | 2 | 2.953 ± 0.079 75.00 ± 2.00 | 3.543 ± 0.118 90.00 ± 3.00 | 10.039 ± 0.197 255.00 ± 5.00 | inches mm |

Rev Date: 10/15/2024

7

This specification may be changed at any time without prior notice.
Please confirm technical specifications before use.

www.seielect.com
marketing@seielect.com

Ammo Packaging Specifications (cont.)

| Type/Code | Size | A | B | C | Unit |
|-----------|------|-------------------------------|--------------------------------|---------------------------------|--------------|
| CFM, CFQM | 14 | 2.953 ± 0.079 75.00 ± 2.00 | 2.756 ± 0.118 70.00 ± 3.00 | 10.039 ± 0.197 255.00 ± 5.00 | inches mm |
| CFM, CFQM | 12 | 2.953 ± 0.079 75.00 ± 2.00 | 3.937 ± 0.118 100.00 ± 3.00 | 10.039 ± 0.197 255.00 ± 5.00 | inches mm |
| CFQ, CFQM | 1 | 2.953 ± 0.079 75.00 ± 2.00 | 2.953 ± 0.118 75.00 ± 3.00 | 10.039 ± 0.197 255.00 ± 5.00 | inches mm |

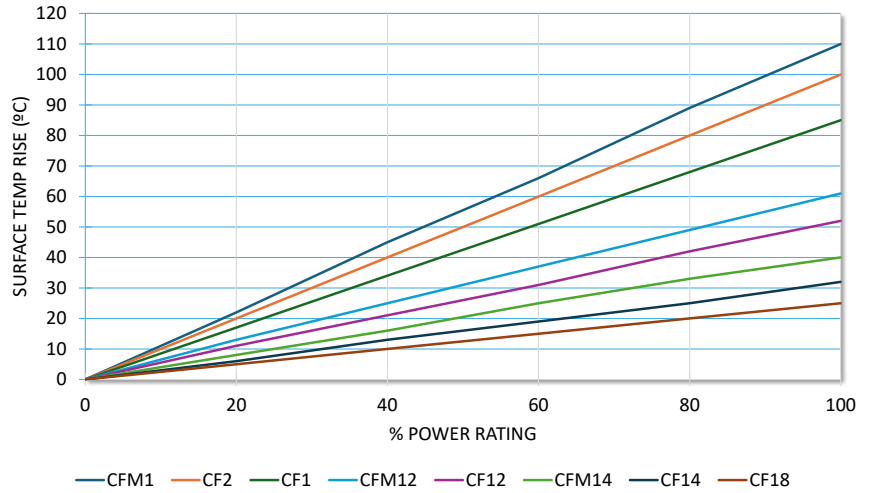
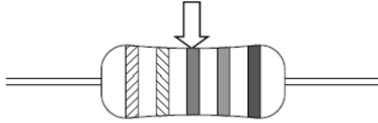
Radial Lead Taping Specifications (Pana-Sert PCF14)



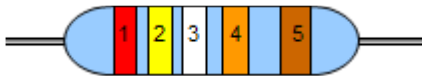
| Symbol | Description | PANA-SERT | Unit | Symbol | Description | PANA-SERT | Unit |
|----------------|------------------------------|---|--------------|----------------|---|--|--------------|
| A | Resistor body length | 0.256 ± 0.020 6.50 ± 0.50 | inches mm | L | Cutout Length | 0.433 max. 11.00 max. | inches mm |
| C | Height of bending | 0.098 ± 0.020 2.50 ± 0.50 | inches mm | P | Resistor pitch | 0.500 ± 0.039 12.70 ± 1.00 | inches mm |
| D | Resistor body diameter | 0.091 ± 0.008 2.30 ± 0.20 | inches mm | P ₀ | Sprocket-hole pitch | 0.500 ± 0.012 12.70 ± 0.30 | inches mm |
| D ₀ | Sprocket-hole diameter | 0.157 ± 0.012 4.00 ± 0.30 | inches mm | P ₁ | Sprocket-hole center to lead center | 0.152 ± 0.028 3.85 ± 0.70 | inches mm |
| F | Resistor lead spacing | 0.197 ± 0.039 5.00 ± 1.00 | inches mm | P ₂ | Sprocket-hole center to resistor center | 0.250 ± 0.051 6.35 ± 1.30 | inches mm |
| H | Height to bottom of resistor | 0.748 ± 0.039 19.00 ± 1.00 | inches mm | T | Thickness (chipboard and tape) | 0.028 ± 0.008 0.70 ± 0.20 | inches mm |
| H ₀ | Height to lead clinch | 0.630 ± 0.020 16.00 ± 0.50 | inches mm | W | Chipboard width | 0.709 +0.039 / -0.020 18.00 +1.00 / -0.50 | inches mm |
| H ₁ | Height of resistor | 1.122 max. 28.50 max. | inches mm | W ₀ | Hold-down tape width | 0.49 min. 12.50 min. | inches mm |
| h | Resistor alignment | 0 ± 0.079 (0 ± 5°) 0 ± 2.00 (0 ± 5°) | inches mm | W ₁ | Sprocket-hole position | 0.354 +0.030 / -0.020 9.00 +0.75 / -0.50 | inches mm |
| h ₁ | Resistor alignment | 0 ± 0.079 (0 ± 5°) 0 ± 2.00 (0 ± 5°) | inches mm | W ₂ | Hold-down tape position | 0.118 max. 3.00 max. | inches mm |
| I | Lead protrusion | 0.079 max. 2.00 max. | inches mm | | | | |

Surface Temperature Rise

Measurement Point



Standard Color Codes



PRECISION - Have three significant-figure bands, a multiplier band, and a tolerance band.
Tolerances 1% or less.

GENERAL PURPOSE - Have two significant-figure bands, a multiplier band, and a tolerance band.
Tolerances 2% or greater.

| Color | Nominal | Multiplier | Tolerance (%) |
|--------|---------|------------|---------------|
| Black | 0 | 1 | - |
| Brown | 1 | 10 | 1 |
| Red | 2 | 100 | 2 |
| Orange | 3 | 1K | - |
| Yellow | 4 | 10K | - |
| Green | 5 | 100K | 0.5 |
| Blue | 6 | 1000K | 0.25 |
| Violet | 7 | - | 0.1 |
| Gray | 8 | - | - |
| White | 9 | 0.001 | - |
| Silver | - | 0.01 | 10 |
| Gold | - | 0.1 | 5 |

COLOR BAND DESCRIPTION

| BAND | PRECISION | GENERAL PURPOSE |
|----------|------------|-----------------|
| 1st band | Nominal | Nominal |
| 2nd band | Nominal | Nominal |
| 3rd band | Nominal | Multiplier |
| 4th band | Multiplier | Tolerance |
| 5th band | Tolerance | - |

RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

| RoHS Compliance Status | | | | | | |
|-------------------------|---|----------------------------|--------------------------------|-----------------------------------|--|---------------------------------------|
| Standard Product Series | Description | Package / Termination Type | Standard Series RoHS Compliant | Lead-Free Termination Composition | Lead-Free Mfg. Effective Date (Std Product Series) | Lead-Free Effective Date Code (YY/WW) |
| CF | Carbon Film Leaded Resistor | Axial | YES | 100% Matte Sn | Jan-04 (Taiwan, China) | 04/01 |
| CFM | Carbon Film Resistor (Mini) | Axial | YES | 100% Matte Sn | Jan-04 (Taiwan, China) | 04/01 |
| CFF | Carbon Film Resistor (Flameproof) | Axial | YES | 100% Matte Sn | Jan-04 (Taiwan, China) | 04/01 |
| CFFM | Carbon Film Resistor (Flameproof - mini) | Axial | YES | 100% Matte Sn | Jan-04 (Taiwan, China) | 04/01 |
| PCF | Carbon Film Resistor (Panaset CF14) | Axial | YES | 100% Matte Sn | Jan-04 (Taiwan, China) | 04/01 |
| PCFM | Carbon Film Resistor (Panaset CFM12) | Axial | YES | 100% Matte Sn | Jan-04 (Taiwan, China) | 04/01 |
| CFQ | Carbon Film Resistor (Tin Plating on Copper Wire) | Axial | YES | 100% Matte Sn | Jan-04 (Taiwan, China) | 04/01 |
| CFQM | Carbon Film Resistor (Tin Plating Mini on Copper Wire) | Axial | YES | 100% Matte Sn | Jan-04 (Taiwan, China) | 04/01 |
| PCFQ | Carbon Film Resistor (Tin Plating on Copper Wire - Panaset) | Axial | YES | 100% Matte Sn | Jan-04 (Taiwan, China) | 04/01 |

"Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

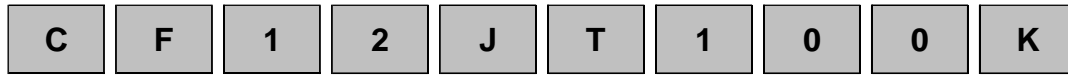
It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

CF / CFM Series

Carbon Film Resistor

Stackpole Electronics, Inc.
Resistive Product Solutions

How to Order



| Product Series | | Power Rating | | Tolerance | | Packaging | | | Resistance Value | |
|----------------|-------------------------------------|--------------|-------|-----------|-----|------------------------|---------------|----------------------------|------------------|---|
| Code | Description | Code | W | Code | Tol | Code | Description | Product Code | Qty(*) | Four characters with the multiplier used as the decimal holder. 10 ohm = 10R0 10.2 Kohm = 10K2 1 Mohm = 1M00 |
| CF | Standard | 18 | 0.125 | G | 2% | T | Tape and Reel | CF18, CFQ18, CFF18 | 5000 | |
| CFM | Mini | CFF18 | 0.166 | J | 5% | | | CF14, CFM14, CFF14, CFFM14 | | |
| CFF | Flameproof | 14 | 0.25 | | | | | CFQ14, CFQM14 | | |
| CFFM | Flameproof (mini) | 12 | 0.5 | | | | | CF12, CFM12, CFF12, CFFM12 | | |
| PCF | Panasert CF14 | 1 | 1 | | | | | CFQ12, CFQM12 | | |
| PCFM | Panasert CFM12 | 2 | 2 | | | | | CFM1, CFQM1, PCF14, PCFM12 | | 2500 |
| CFQ | Tin plating on copper wire | | | | | | CF1, CFQ1 | 2000 | | |
| CFQM | Tin plating (mini) | | | | | | CF2, CFQ2 | 1000 | | |
| PCFQ | Tin plating on copper wire Panasert | | | | | | | | | |
| | | | | | | A | Ammo | CF18, CFQ18, CFF18 | 5000 | |
| | | | | | | | | CF14, CFF14, CFFM14, CFM14 | | |
| | | | | | | | | CFQ14, CFQM14 | | |
| | | | | | | | | CFM12, CFFM12, CFQM12 | | |
| | | | | | | | | CF12, CFF12, CFQ12, PCFM12 | | 2000 |
| | | | | | | CF1, CFM1, CFQ1, CFQM1 | | | | |
| | | | | | | PCF14 | | | | |
| | | | | | | CF2 | 1000 | | | |

(*) Unpopular values may be subject to MOQ higher than SPQ.

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