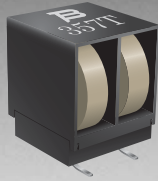


RoHS COMPLIANT



BOURNS®

Features

- Two resistance-matched PTCs in a plastic housing
- Narrow resistance tolerance
- RoHS compliant*

Applications

Used as a secondary overcurrent protection device in:

- Customer Premise Equipment (CPE)
- Central Office (CO)
- Access equipment

CMF-SDP Series - Telecom CPTC Resettable Fuses

Electrical Characteristics

Model	Induction Voltage Withstand	Rated Voltage	Rated Resistance (RN)		Resistance Matching In Housing	Hold Current	Trip Current	I _{max} @ 230 VAC	Typical Time to Trip @ I _{max} /230 VAC
	VAC		Volts	Ohms	Tolerance				Ohms
CMF-SDP05	600	230	5	±20 %	±1	0.160	0.370	1.0	4.5
CMF-SDP07	600	230	7	±20 %	±0.5	0.150	0.350	3.0	0.45
CMF-SDP10	600	220	10	±20 %	±0.5	0.180	0.360	1.0	3.8
CMF-SDP10A	600	220	10	±20 %	±0.5	0.150	0.360	1.0	3.8
CMF-SDP25	600	220	25	±20 %	±0.5	0.130	0.260	2.5	0.2
CMF-SDP25A	600	220	25	±20 %	±0.5	0.130	0.260	2.5	0.3
CMF-SDP35	600	220	35	+15/-20 %	±0.5	0.110	0.230	2.5	0.06
CMF-SDP35A	600	220	35	+15/-20 %	±0.5	0.110	0.230	2.5	0.0
CMF-SDP50	600	220	50	±15 %	±0.5	0.090	0.190	2.5	0.13
CMF-SDP50A	600	220	50	±15 %	±0.5	0.090	0.190	2.5	0.1
CMF-SDP75	600	220	75	±20 %	±1	0.070	0.150	2.5	0.12
CMF-SDP75A	600	220	75	±20 %	±1	0.070	0.150	2.5	0.09

Operating Temperature Range: -40°C to +125 °C

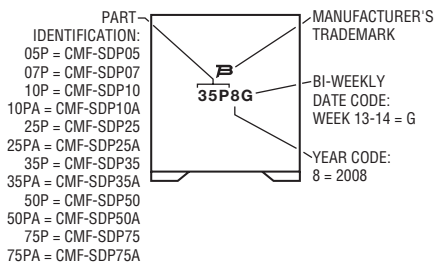
Test Procedures And Requirements For Model CMF-SDP Series

Test	Primary Protection	Test Condition	Requirements
Mains Power Contact - ITU-T K.20, K.21	None	230 V rms, 10 ohms, 15 Min.	(Ri-Rf) / Ri < ±10 %
Power Induction - ITU-T K.20, K.21	None	600V rms, 600 ohms, 0.2 seconds, 10 cycles, every 1 Min.	(Ri-Rf) / Ri < ±10 %
Power Induction - ITU-T K.20, K.21	GDT	600 V rms, 600 ohms, 1 second, 10 cycles, every 1 Min.	(Ri-Rf) / Ri < ±10 %
Power Induction - ITU-T K.20, K.21	GDT	600 V rms, 200 ohms, 1 second, 10 cycles, every 1 Min.	(Ri-Rf) / Ri < ±10 %
Lightning Surge - ITU-T K.20, K.21		10/700 μs, 25 ohms, 1.0 kV, 10 Tests, every 1 Min.	(Ri-Rf) / Ri < ±10 %
Lightning Surge		10/1000 μs, 25 amps, 1.5 kV, 30 Tests, every 3 Min.	(Ri-Rf) / Ri < ±10 %

Ri = R initial
Rf = R final

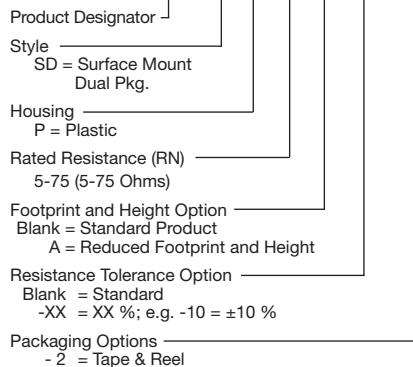
Typical Part Marking

Represents total content. Layout may vary.



How to Order

CMF - SD P 35 A -XX - 2



Asia-Pacific:
Tel: +886-2 2562-4117
Fax: +886-2 2562-4116

Europe:
Tel: +41-41 768 5555
Fax: +41-41 768 5510

The Americas:
Tel: +1-951 781-5500
Fax: +1-951 781-5700

www.bourns.com

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

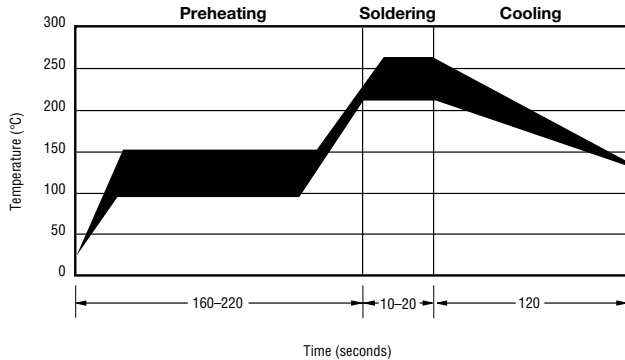
Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.

CMF-SDP Series - Telecom CPTC Resettable Fuses

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Solder Reflow Recommendations



Solder reflow

- Recommended reflow methods: IR, vapor phase oven, hot air oven.
- Devices are not designed to be wave soldered to the bottom side of the board.
- Gluing the devices is not recommended.
- Recommended maximum paste thickness is 0.25 mm (.010 inch).
- Devices can be cleaned using standard industry methods and solvents.

Note:

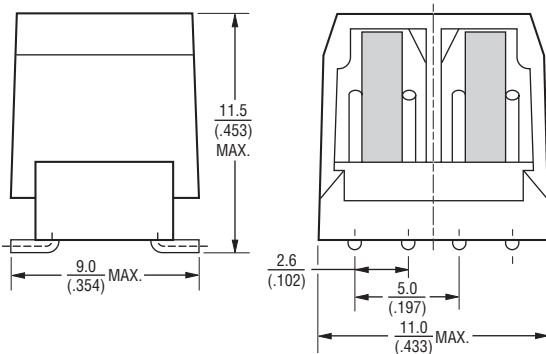
- If reflow temperatures exceed the recommended profile, devices may not meet the performance specifications.

Rework

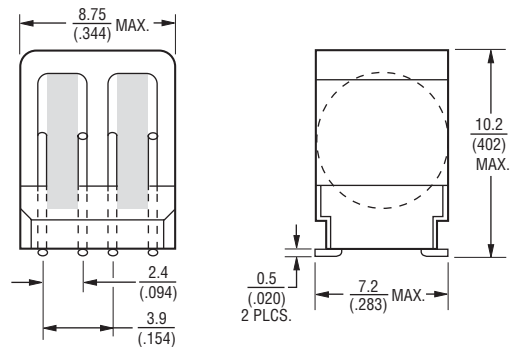
- A device should not be reworked.

Product Dimensions

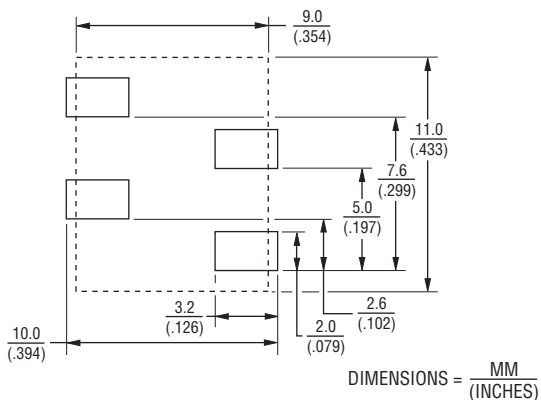
CMF-SDP05, 07, 10, 25, 35, 50 & 75



CMF-SDP10A, 25A, 35A, 50A & 75A

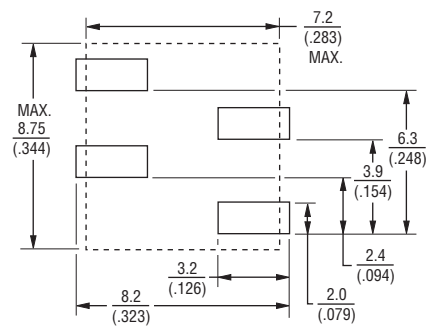


Recommended Pad Layout



Packaging options: TAPE & REEL: 350 pcs. per reel

Recommended Pad Layout

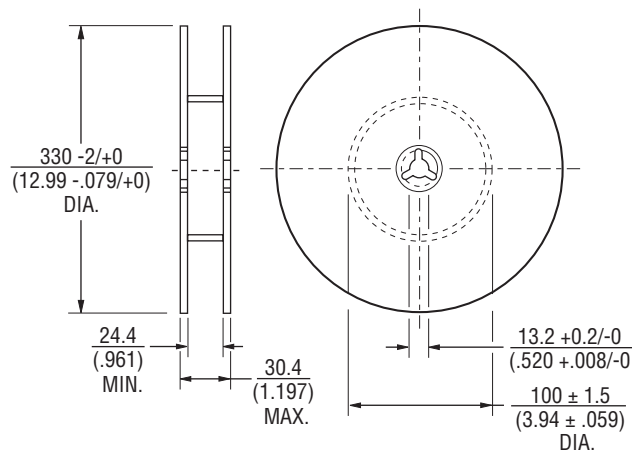
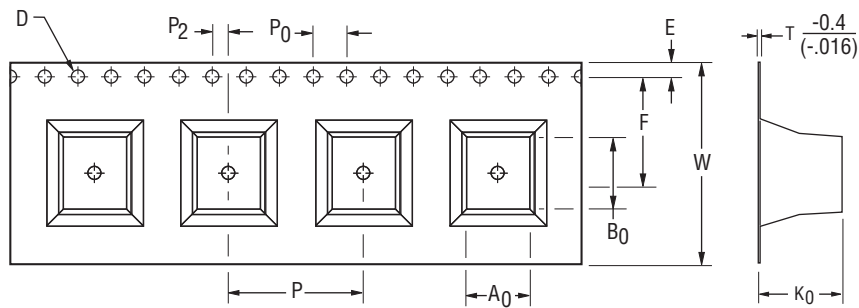


Packaging options: TAPE & REEL: 400 pcs. per reel

CMF-SDP Series Tape and Reel Specifications

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Tape Dimensions per EIA 481-2	CMF-SDP05-2, CMF-SDP07-2, CMF-SDP10-2, CMF-SDP25-2, CMF-SDP-35-2, CMF-SDP50-2, CMF-SDP75-2	CMF-SDP10A-2 CMF-SDP25A-2, CMF-SDP35A-2, CMF-SDP50A-2, CMF-SDP75A-2
W	$\frac{24.0 \pm 0.5}{(0.945 \pm 0.020)}$	$\frac{24.0 \pm 0.5}{(0.945 \pm 0.020)}$
P ₀	$\frac{4.0}{(0.157)}$	$\frac{4.0}{(0.157)}$
P	$\frac{16.0}{(0.630)}$	$\frac{16.0}{(0.630)}$
P ₂	$\frac{2.0}{(0.079)}$	$\frac{2.0}{(0.079)}$
A ₀	$\frac{9.1 \pm 0.2}{(0.358 \pm 0.008)}$	$\frac{7.5 \pm 0.2}{(0.295 \pm 0.008)}$
B ₀	$\frac{11.20 \pm 0.2}{(0.441 \pm 0.008)}$	$\frac{9.0 \pm 0.2}{(0.354 \pm 0.008)}$
D	$\frac{1.5}{(0.059)}$	$\frac{1.5}{(0.059)}$
F	$\frac{11.5}{(0.453)}$	$\frac{11.5}{(0.453)}$
E	$\frac{1.75}{(0.069)}$	$\frac{1.75}{(0.069)}$
t	$\frac{0.5 \pm 0.15}{(0.020 \pm 0.006)}$	$\frac{0.5 \pm 0.15}{(0.020 \pm 0.006)}$
K ₀	$\frac{11.7 \pm 0.2}{(0.433 \pm 0.008)}$	$\frac{10.0 \pm 0.2}{(0.394 \pm 0.008)}$



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications