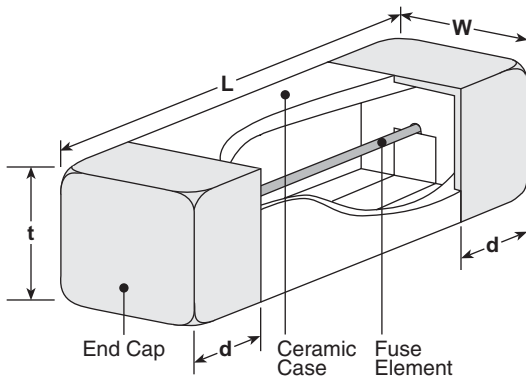




features

- Surface mount fuse suitable for primary and secondary circuits
- Ceramic case provides excellent mechanical strength
- Suitable for flow and reflow soldering
- Marking: White body color with black marking
- Products with lead-free terminations meet EU RoHS and China RoHS requirements

dimensions and construction



Type	Dimensions inches (mm)			
	L	W	t	d
CCF	.236±.008 (6.0±0.2)	.098±.008 (2.5±0.2)	.098±.008 (2.5±0.2)	.055±.008 (1.4±0.2)

ordering information

New Part #	CCF	1	N	1	T	TE
	Type	Style	Characteristic	Rated Current	Termination Material	Packaging
			N: Normal blow	Reference rating chart	T: Sn	TE: 4mm pitch embossed plastic (1,000 pieces/reel)

For further information on packaging, please refer to Appendix A.

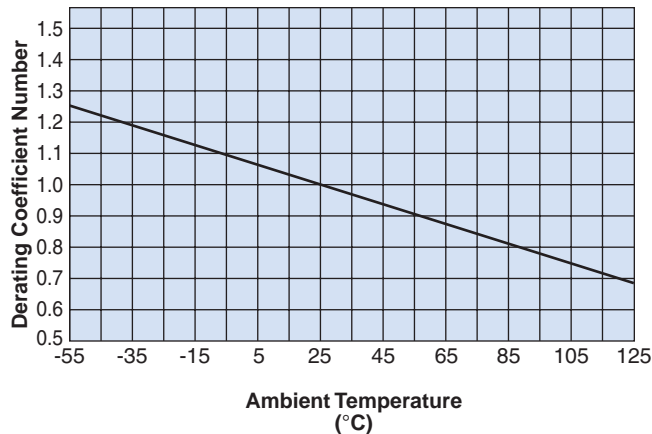
applications and ratings

Part Designation	Current Rating	Voltage Rating	Operating Temperature Range	Interrupting Capacity	Fusing Characteristics		Internal R. (mΩ) Max.	Normal Melting Pt (A ² , seconds)					
					Rated Current	Fusing Time							
CCF1N0.4	400mA	MITI AC 100V		MITI AC 100V 100A	MITI 130% 160% 200%	4 hour min. 1 hour max. 1 second max.	650	0.024					
CCF1N0.5	500mA						510	0.030					
CCF1N0.63	630mA						390	0.052					
CCF1N0.8	800mA						250	0.125					
CCF1N1	1A						90.4	0.156					
CCF1N1.25	1.25A						75.9	0.220					
CCF1N1.6	1.6A						59.3	0.513					
CCF1N2	2A						42.9	0.814					
CCF1N2.5	2.5A						36.6	1.31					
CCF1N3.15	3.15A						UL and CSA AC 125V DC 60V	-55°C to +125°C	UL and CSA AC 125V 50A DC 60V 50A	UL and CSA 100% 200%	4 hour min. 1 second max.	26	2.37
CCF1N4	4A	20.1	3.85										
CCF1N5	5A	15.3	6.5										
CCF1N6.3	6.3A	11.4	10.6										
NEW CCF1N7	7A	10.5	12.8										
CCF1N8	8A	9.5	17.0										
CCF1N10	10A	7.5	27.7										
NEW CCF1N12	12A	UL (c-UL) AC 65V DC 65V		UL (c-UL) AC 65V 50A DC 65V 50A	UL (c-UL) 100% 200%	4 hour min. 60 seconds max.						4.5	73.5
NEW CCF1N15	15A											3.5	125.5

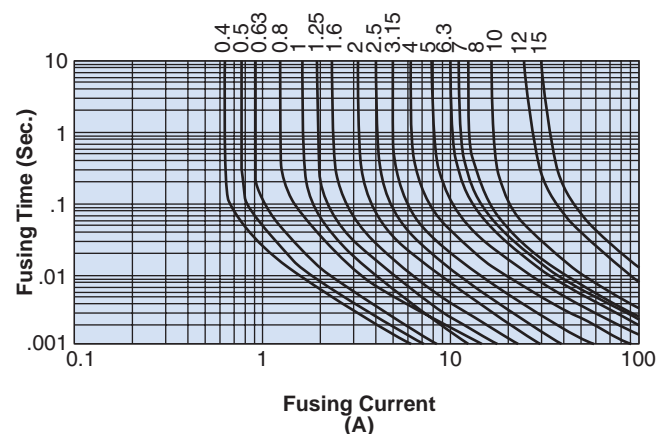
circuit protection

environmental applications

Derating Curve



Fusing Characteristics



Performance Characteristics

Parameter	Requirement	Test Method
Fusing Time	Within specified time, no restriking	Fusing time measured under rated current x 160% and x 200%
Surface Temperature Rise	Maximum temperature rise 140°C (rated current x 115%) Maximum temperature rise 75°C (rated current x 100%)	Surface temperature should be measured by passing current
Bending Test	No mechanical damages	Width of holding point: 90mm, Bending: 3mm, 1 time
Resistance to Solder Heat	ΔR: ±10%	260°C ± 5°C, 10 seconds ± 0.5 seconds
Solderability	95% coverage minimum	235°C ± 5°C, 3 seconds ± 0.5 seconds
Load Life	ΔR: ±10%	70°C ± 2°C, 1000 hours, rated current x 70%, 1.5 hr ON, 0.5 hr OFF cycle
Moisture Resistance	ΔR: ±10%	40°C ± 2°C, 90 - 95% RH, rated current x 70%, 1.5 hr ON, 0.5 hr OFF cycle
Temperature Cycling	ΔR: ±10%	-55°C (30 minutes)/+125°C (30 minutes) cycle