

Together We Make It Safe!



Thin Film Surface Mount Fuse





Thin Film Surface Mount Fuse TF111

0603

Fast Acting



RoHS

HF

Features

- Lead free and RoHS compliant, Halogen free
- Copper thin film on PCB based FR4 substrate
- Tin termination over Nickel plating on Copper

Applications

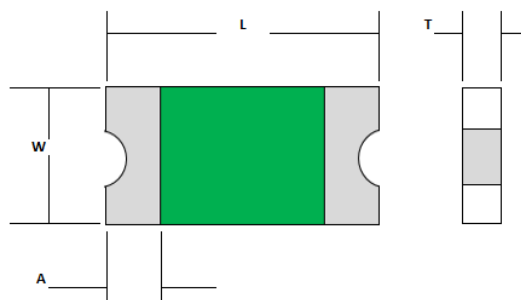
- Cell Phones, Tablets, and Laptops
- Portable Electronic Devices
- Hard Disk Drivers
- Toys
- Digital Cameras
- Memory Cards
- Bluetooth Earphones

Fuse Opening Time

% of Current Rating	Opening Time at 25°C
100%	> 4 hours
200%	< 5 seconds
300%	<0.2 second

Fuse Dimensions

Dimension	mm	Inch
Thickness (T)	0.30 ± 0.13	0.012 ± 0.004
Length (L)	1.60 ± 0.10	0.063 ± 0.004
Width (W)	0.81 ± 0.10	0.032 ± 0.004
Terminal Width (A)	0.36 ± 0.10	0.014 ± 0.004



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Product Identification

TF111 F 0603 A1000

(1) (2) (3) (4)

(1) Product Code (2) Fast Acting (3) Product Size (4) Current Rating Code

Fuse Ratings and Properties

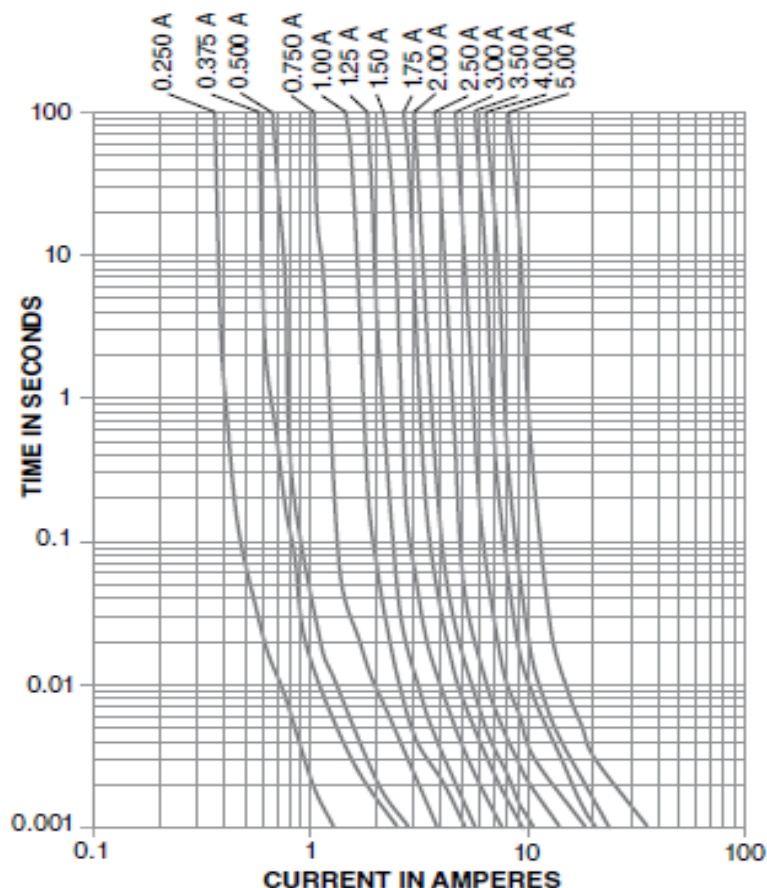
Part Number	Marking	Current Rating (A)	Voltage Rating (V, DC)	Interrupt Rating	Nominal Cold Resistance (Ω)	Nominal I^2t (A^2s)
TF111F0603A0150	A	0.15	65	50A@35VDC/AC 13A@65VDC	2.15	0.0007
TF111F0603A0200	B	0.2	65	50A@35VDC/AC 13A@65VDC	1.32	0.0015
TF111F0603A0250	C	0.25	65	50A@35VDC/AC 13A@65VDC	1.14	0.0017
TF111F0603A0375	D	0.375	65	50A@35VDC/AC 13A@65VDC	0.473	0.005
TF111F0603A0500	E	0.5	65	50A@35VDC/AC 13A@65VDC	0.176	0.012
TF111F0603A0750	G	0.75	65	50A@35VDC/AC 13A@65VDC	0.116	0.030
TF111F0603A1000	H	1	65	50A@35VDC/AC 13A@65VDC	0.072	0.045
TF111F0603A1250	K	1.25	65	35A@35VDC/AC 13A@65VDC	0.055	0.073
TF111F0603A1500	L	1.5	65	35A@35VDC/AC 13A@65VDC	0.038	0.090
TF111F0603A1750	N	1.75	35	35A@35VDC/AC 50A@24VDC/AC	0.030	0.115
TF111F0603A2000	O	2	35	35A@35VDC/AC 50A@24VDC/AC	0.025	0.150
TF111F0603A2500	P	2.5	35	35A@35VDC/AC 50A@24VDC/AC	0.021	0.255
TF111F0603A3000	R	3	35	35A@35VDC/AC 50A@24VDC/AC	0.018	0.380

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Part Number	Marking	Current Rating (A)	Voltage Rating (V, DC)	Interrupt Rating	Nominal Cold Resistance (Ω)	Nominal I^2t (A^2s)
TF111F0603A3500	S	3.5	35	35A@35VDC/AC 50A@24VDC/AC	0.016	0.510
TF111F0603A4000	T	4	35	35A@35VDC/AC 50A@24VDC/AC	0.014	0.720
TF111F0603A5000	V	5	35	35A@35VDC/AC 50A@24VDC/AC	0.010	1.210

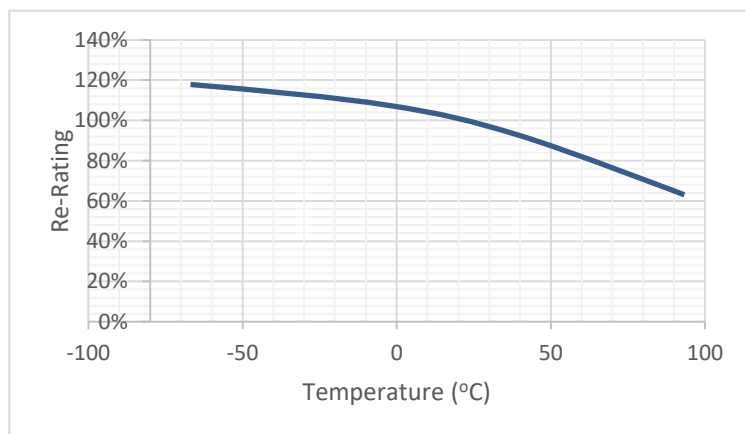
Time vs. Current



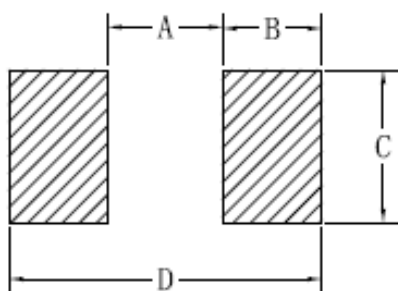
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Temperature Re-Rating

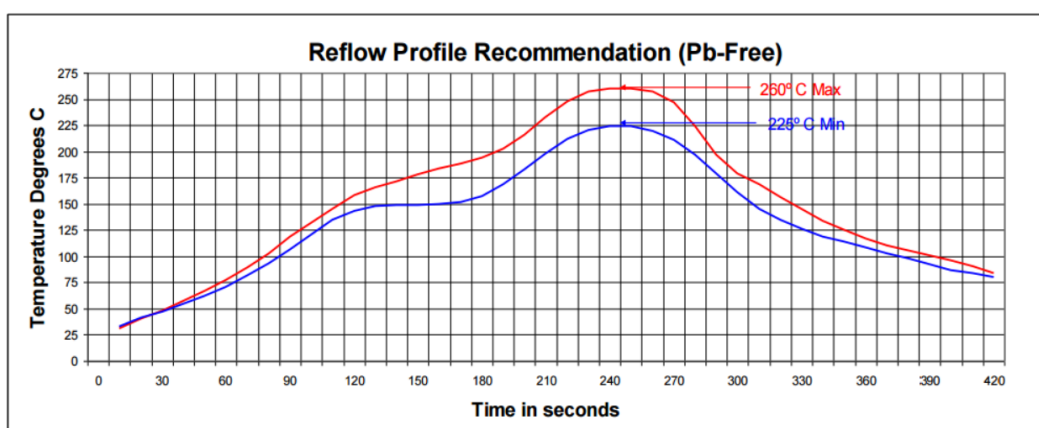


Pad Layout Recommended



Dimension	A	B	C	D
mm	1.02	0.76	1.09	2.54
Inch	0.040	0.030	0.043	0.100

Pb-Free Reflow Recommendation



Packaging

8mm Tape and Reel, Quantity 5000 pieces per reel, Packaging Specification EIA-481.