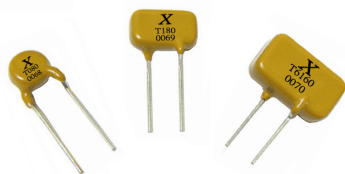


Resettable PPTC Fuse



Features

- Broadest range of Thru - Hole devices available in the industry
- Cured, Flame retardant epoxy, meets UL 94 V-0 requirement
- RoHS Compliant & Halogen Free

Agency Approval and Environmental Compliance

Agency	File Number	Regulation
UL, C-UL	E211981	
TÜV	In Process	

250V/600V **XT/XT6** Series

Thru - Hole

Electrical Characteristics

Part Number	I_H	I_T	T_{Trip}	I_{MAX}	V_{MAX}	V_{I-MAX}	$P_{D Typ}$	R_{MIN}	$R1_{MAX}$
	A	A	sec/A	A	V	V	W	Ω	Ω
XT080	0.08	0.16	4.0/0.35	3.0	100	250	1.0	14.0	33.0
XT110	0.11	0.22	2.0/1.00	3.0	100	250	1.0	5.0	16.0
XT120	0.12	0.24	2.0/1.00	3.0	100	250	1.0	4.0	16.0
XT145	0.15	0.29	2.5/1.00	3.0	100	250	1.0	3.0	12.0
XT180	0.18	0.65	2.0/3.00	10.0	100	250	1.5	0.8	4.0
XT6150	0.15	0.30	3.0/1.00	3.0	250	600	1.0	6.0	17.0
XT6160	0.16	0.32	7.0/1.00	3.0	250	600	1.0	4.0	18.0

I_H =Hold current-maximum current at which the device will not trip at 23°C still air.

I_T =Trip current-minimum current at which the device will always trip at 23°C still air.

T_{trip} =Maximum time to trip(s) at assigned current.

I_{MAX} = Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).

V_{MAX} =Maximum voltage device can withstand without damage at its rated current.

V_{I-MAX} =Maximum interrupt voltage device can withstand for short period of time. (Not for long term.)

$P_{D Typ}$ =Typical power dissipated from device when in tripped state in 23°C still air environment.

R_{MIN} =Minimum device resistance at 23°C.

$R1_{MAX}$ =Maximum device resistance at 23°C, 1 hour after tripping .

NOTE : All XT/XT6 products are designed to assist equipment to pass ITU, UL60950, GR1089 and TIA-968-A specification.

* XT6150 and XT6160 meet UL497A overvoltage test requirement.

CAUTION : XT/XT6 devices are not intended for continuous use of Line Voltage such as 120 VAC~ 240VAC and above.

All specifications are subject to revise without notice.

[Http://x-protection.com](http://x-protection.com)

Resettable PPTC Fuse



Product Dimensions (Millimeter)

Part Number	Figure	A	B	C	D	E
		Maximum	Maximum	Typical	Minimum	Maximum
XT080	1	5.8	9.6	5.0	4.7	4.6
XT110	1	6.8	9.9	5.0	4.7	4.6
XT120	2	6.5	11.0	5.0	4.7	4.6
XT145	2	6.5	11.0	5.0	4.7	4.6
XT180	1	9.0	12.0	5.0	4.7	3.8
XT6150	2	9.0	12.5	5.0	4.7	4.6
XT6160	2	16.0	12.6	5.0	4.7	6.0

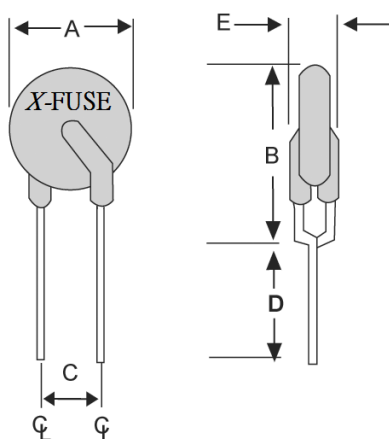


Figure 1

Lead Size: 22AWG

Φ 0.65 mm Diameter

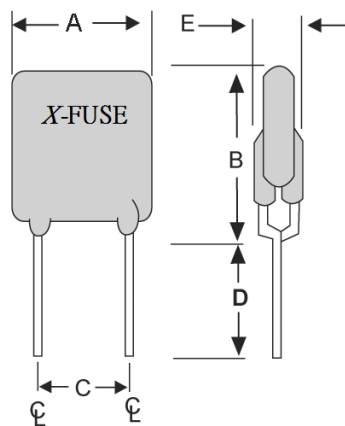


Figure 2

Lead Size: 22AWG

Φ 0.65 mm Diameter

Resettable PPTC Fuse

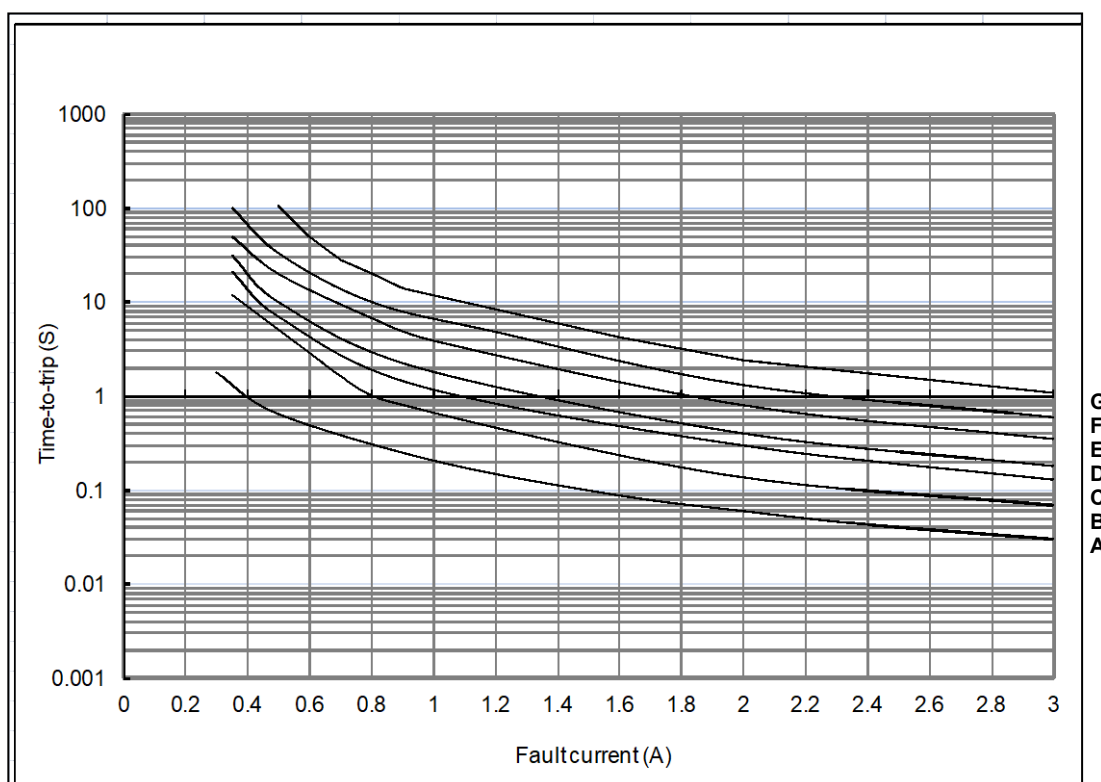


Thermal Derating Chart- I_H (A)

Part Number	Maximum ambient operating Temperature(°C)									
	-40	-20	0	23	30	40	50	60	70	85
X T080	0.13	0.11	0.10	0.08	0.07	0.07	0.06	0.05	0.04	0.03
X T110	0.17	0.15	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.05
X T120	0.19	0.17	0.14	0.12	0.11	0.10	0.09	0.08	0.07	0.05
X T145	0.24	0.21	0.18	0.15	0.14	0.12	0.11	0.10	0.08	0.06
X T180	0.28	0.25	0.21	0.18	0.17	0.15	0.13	0.12	0.10	0.08
X T6150	0.24	0.21	0.18	0.15	0.14	0.12	0.11	0.10	0.08	0.06
X T6160	0.25	0.22	0.19	0.16	0.15	0.13	0.12	0.10	0.09	0.07

Typical Time-To-Trip at 23°C

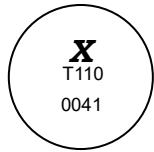
- A = **X**T080
- B = **X**T110
- C = **X**T120
- D = **X**T145
- E = **X**T180
- F = **X**T6150
- G = **X**T6160



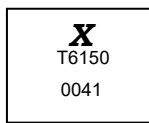
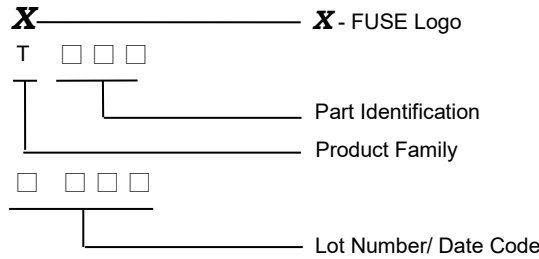
Resettable PPTC Fuse



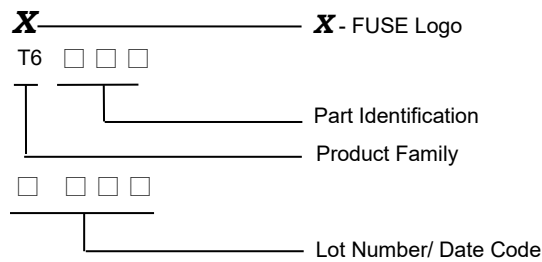
Marking System



Example



Example



Package Information

Bulk:

- X**T080~**X**T145-----300pcs per bag
- X**T180-----200pcs per bag
- X**T6150~**X**T6160-----100pcs per bag

Tape & Reel:

- X**T080~**X**T180-----1500pcs per reel
- X**T6150-----1200pcs per reel
- X**T6160-----600pcs per reel

Caution : Operation beyond the specified maximum ratings or misuse can result in damage and possible electrical arcing and/or flame.
 PPTC device are designed for occasional overcurrent protection. Not for continuously overcurrent circumstance and/or prolonged trip are not anticipated.
 Keep PPTC device away from chemical solvent contact. Prolonged contact will damage the device performance.