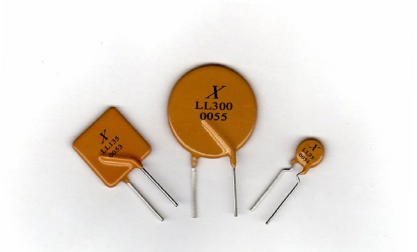
Resettable PPTC Fuse



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	RoHS HF Halogen Free

Note: XLL040~XLL070, XLL100~XLL130 C-UL In Process

120V XLL Series Thru - Hole Devices

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	VAC/DC	VAC/DC	W	Ω	Ω
XLL010	0.10	0.20	10.0/0.50	2.0	120	135	0.84	3.00	7.50
XLL017	0.17	0.34	10.0/0.85	2.0	120	135	0.84	2.00	7.00
XLL020	0.20	0.40	9.0/1.00	2.0	120	135	1.08	1.83	4.40
XLL025	0.25	0.50	7.5/1.25	3.0	120	135	1.08	1.25	3.00
XLL030	0.30	0.60	8.5/1.50	3.0	120	135	1.44	0.88	2.10
XLL040	0.40	0.80	6.5/2.00	3.0	120	135	1.44	0.55	1.29
XLL050	0.50	1.00	6.0/2.50	3.0	120	135	1.56	0.50	1.17
XLL065	0.65	1.30	5.7/3.25	5.0	120	135	1.68	0.31	0.72
XLL070	0.75	1.50	6.3/3.75	5.0	120	135	1.80	0.25	0.60
XLL075	0.75	1.50	15.0/3.75	7.5	120	135	2.64	0.25	0.69
XLL090	0.90	1.80	7.2/4.50	5.0	120	135	1.80	0.20	0.47
XLL100	1.00	2.00	15.0/5.00	10.0	120	135	2.64	0.18	0.47
XLL110	1.10	2.20	8.2/5.50	8.0	120	135	2.28	0.15	0.38
XLL125	1.25	2.50	20.0/6.25	12.5	120	135	2.88	0.11	0.33
XLL130	1.35	2.70	9.6/6.75	10.0	120	135	2.64	0.12	0.30
XLL135	1.35	2.70	20.0/6.75	13.5	120	135	3.12	0.11	0.30
XLL160	1.60	3.20	11.4/8.00	12.0	120	135	3.12	0.09	0.22
XLL185	1.85	3.70	12.6/9.25	12.0	120	135	3.36	0.08	0.19
XLL200	2.00	4.20	36.0/10.00	20.0	120	135	4.32	0.08	0.21
XLL250	2.50	5.00	15.6/12.50	15.0	120	135	4.44	0.05	0.13
XLL300	3.00	6.00	19.8/15.00	17.0	120	135	4.56	0.04	0.10
XLL375	3.75	7.50	24.0/18.75	20.0	120	135	4.80	0.03	0.08

Resettable PPTC Fuse

I_H=Hold current-maximum current at which the device will not trip at 23℃ still air.
I_T=Trip current-minimum current at which the device will always trip at 23℃ 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.
$P_{D\ Typ}$=Typical power dissipated from device when in tripped state in 23℃ still air environment.
R_{MIN}=Minimum device resistance at 23℃.
$R1_{MAX}$=Maximum device resistance at 23℃, 1 hour after tripping .

Product Dimensions (Millimeter)

Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
XLL010	1	7.9	13.0	5.1	7.6	3.8	2.2
XLL017	1	7.9	13.0	5.1	7.6	3.8	2.2
XLL020	2	7.9	13.0	5.1	7.6	3.8	2.2
XLL025	2	7.9	13.0	5.1	7.6	3.8	2.2
XLL030	2	7.9	13.0	5.1	7.6	3.8	2.2
XLL040	2	8.2	14.2	5.1	7.6	3.8	2.2
XLL050	2	9.2	14.9	5.1	7.6	3.8	2.2
XLL065	2	9.7	14.9	5.1	7.6	3.8	2.2
XLL070	2	10.6	15.5	5.1	7.6	3.8	2.2
XLL075	4	10.9	17.0	5.1	7.6	4.1	2.2
XLL090	2	11.9	15.9	5.1	7.6	3.8	2.2
XLL100	4	11.5	20.1	5.1	7.6	4.1	2.2
XLL110	3	13.3	18.3	5.1	7.6	4.1	2.2
XLL125	4	14.0	21.7	5.1	7.6	4.1	2.2
XLL130	3	15.5	20.6	5.1	7.6	4.1	2.2
XLL135	4	16.3	21.7	5.1	7.6	4.1	2.2
XLL160	3	17.5	22.5	5.1	7.6	4.1	2.2
XLL185	3	19.9	24.9	5.1	7.6	4.1	2.2
XLL200	4	23.5	27.9	10.2	7.6	4.1	2.2
XLL250	3	22.5	27.5	10.2	7.6	4.1	2.2
XLL300	3	25.5	30.0	10.2	7.6	4.1	2.2
XLL375	3	29.5	34.0	10.2	7.6	4.1	2.2

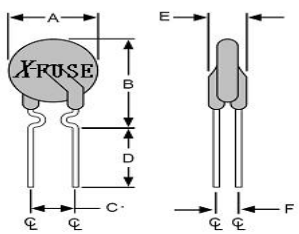


Figure 1
Lead Size :24AWG
Φ 0.51 mm Diameter

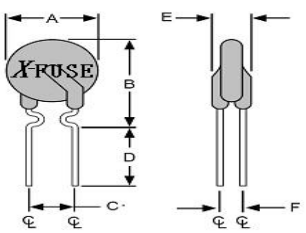


Figure 2
Lead Size :22AWG
Φ 0.65 mm Diameter

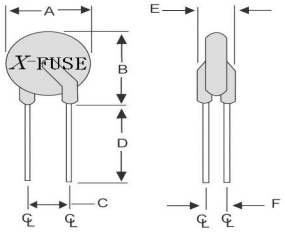


Figure 3
Lead Size :20AWG
Φ 0.81 mm Diameter

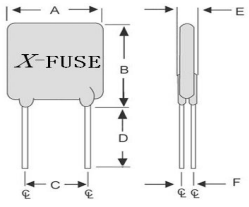


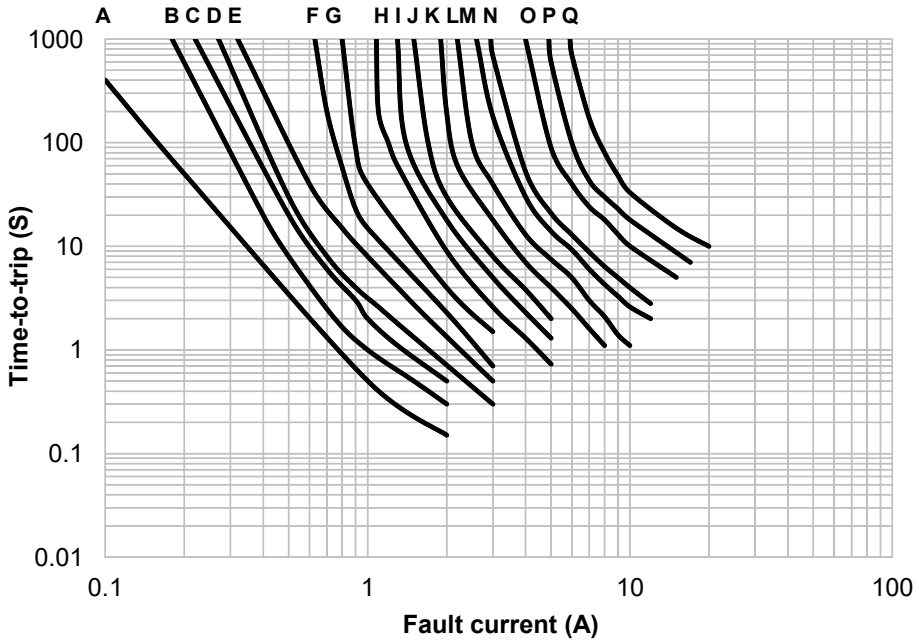
Figure 4
Lead Size :20AWG
Φ 0.81 mm Diameter

Thermal Derating Chart-I_H (A)

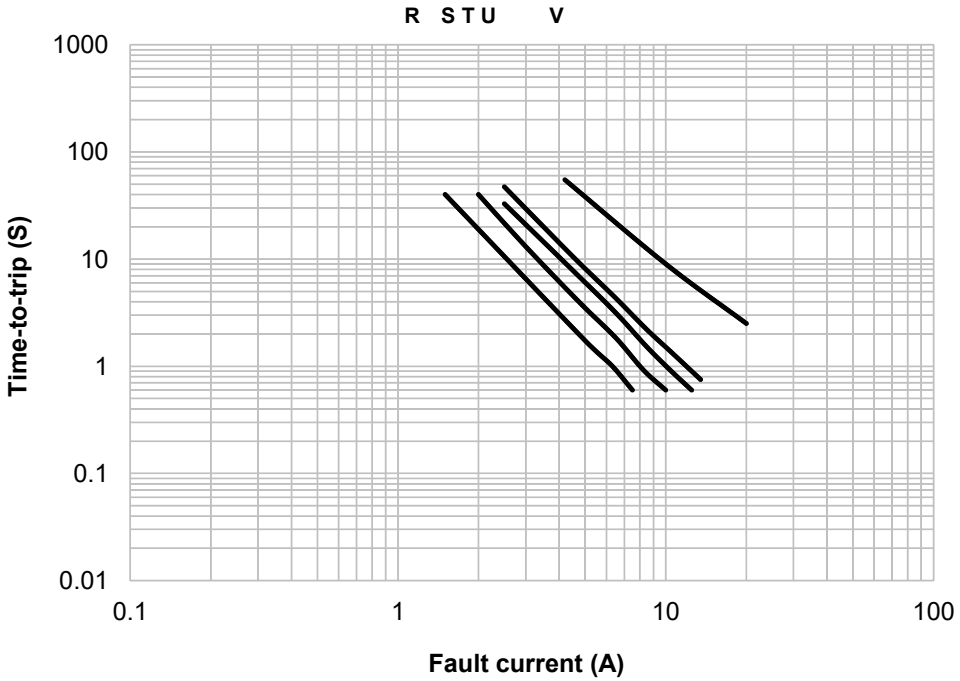
Part Number	Maximum ambient operating Temperature(℃)									
	-40	-20	0	23	30	40	50	60	70	85
XLL010	0.16	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.04
XLL017	0.27	0.23	0.20	0.17	0.15	0.14	0.12	0.10	0.09	0.06
XLL020	0.32	0.28	0.24	0.20	0.18	0.16	0.14	0.12	0.10	0.08
XLL025	0.40	0.35	0.30	0.25	0.23	0.20	0.18	0.15	0.13	0.10
XLL030	0.47	0.41	0.36	0.30	0.27	0.24	0.21	0.18	0.15	0.11
XLL040	0.63	0.55	0.48	0.40	0.36	0.32	0.28	0.24	0.20	0.15
XLL050	0.79	0.69	0.60	0.50	0.45	0.40	0.35	0.30	0.25	0.19
XLL065	1.03	0.90	0.77	0.65	0.59	0.52	0.46	0.39	0.33	0.25
XLL070	1.19	1.04	0.89	0.75	0.68	0.60	0.53	0.45	0.38	0.29
XLL075	1.19	1.04	0.89	0.75	0.68	0.60	0.53	0.45	0.38	0.29
XLL090	1.42	1.24	1.07	0.90	0.81	0.72	0.63	0.54	0.45	0.34
XLL100	1.58	1.38	1.19	1.00	0.90	0.80	0.70	0.60	0.50	0.38
XLL110	1.74	1.52	1.31	1.10	0.99	0.88	0.77	0.66	0.55	0.42
XLL125	1.98	1.73	1.49	1.25	1.13	1.00	0.88	0.75	0.63	0.48
XLL130	2.13	1.86	1.61	1.35	1.22	1.08	0.95	0.81	0.68	0.51
XLL135	2.13	1.86	1.61	1.35	1.22	1.08	0.95	0.81	0.68	0.51
XLL160	2.53	2.21	1.90	1.60	1.44	1.28	1.12	0.96	0.80	0.61
XLL185	2.92	2.55	2.20	1.85	1.67	1.48	1.30	1.11	0.93	0.70
XLL200	3.16	2.76	2.38	2.00	1.80	1.60	1.40	1.20	1.00	0.76
XLL250	3.95	3.45	2.98	2.50	2.25	2.00	1.75	1.50	1.25	0.95
XLL300	4.74	4.14	3.57	3.00	2.70	2.40	2.10	1.80	1.50	1.14
XLL375	5.93	5.18	4.46	3.75	3.38	3.00	2.63	2.25	1.88	1.43

Typical Time-To-Trip at 23℃

A =XLL010
B =XLL017
C =XLL020
D =XLL025
E =XLL030
F =XLL040
G =XLL050
H =XLL065
I =XLL070
J =XLL090
K =XLL110
L =XLL130
M =XLL160
N =XLL185
O =XLL250
P =XLL300
Q=XLL375



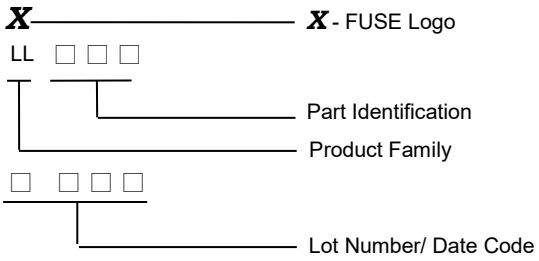
R =XLL075
S =XLL100
T =XLL125
U =XLL135
V =XLL200



Resettable PPTC Fuse

Marking System

Example



Package Information

Bulk:

XLL010~XLL050----------500pcs per bag

XLL065~XLL110----------300pcs per bag

XLL125~XLL160----------200pcs per bag

XLL185~XLL375----------100pcs per bag

Tape & Reel:

XLL010~XLL050----------2000pcs per reel

XLL065~XLL075----------1500pcs per reel

XLL090----------2000pcs per reel

XLL100~XLL110----------1500pcs per reel

XLL125~XLL135----------1000pcs 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.