

# INDIVIDUAL SPECIFICATION SHEET

**Product Name: Square Surface Mount Fuses**

**Part Number: TAXXX Series**

**Revision: A/1**



**Dongguan TLC Electronic Technology Co., LTD**

No.18,5th GaoLi Road,TangXia Town,DongGuan,GuangDong,P.R China 523710


TEL: 86-0769-3892 0511

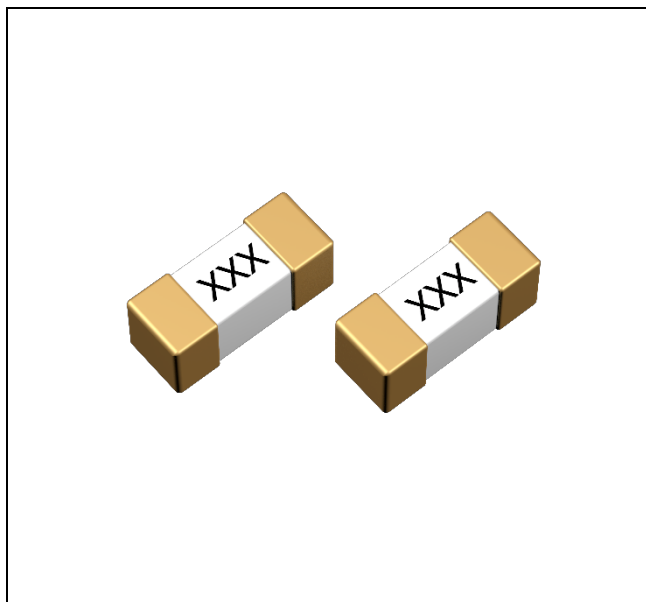
FAX: 86-0769-8793 2077

Http: [www.tlcet.com.cn](http://www.tlcet.com.cn)

Rev.	Effective Date	Changed Contents
A/0	2020-03-04	New Release
A/1	2022-09-27	Edition Upgrades

The individual specification sheet are the property of Dongguan TLC electronic technology Co.,Ltd and shall not be copied or used as commercial purposes without permission.

PREPARED BY	APPROVED BY
石忠可	





## Description

### Square Surface Mount Fuses

TAXXX series slow-blow square Surface Mount Fuses are ceramic tube/end cap constructions, RoHS compliant, Halogen Free and lead (Pb) exempts of the requirements of RoHS Directive(2002/95/EC), with U.S. (UL) safety agency approvals.

## Agency Approvals

Agency	Ampere Range	Agency File Number
	50mA ~ 15A	E467707(JDYX2)
	50mA ~ 15A	E467707(JDYX8)


## Features

- Time-Lag (Slow-Blow)
- Small size 6.1mm x 2.7mm
- Operating temperature: -55°C~125°C
- One-time protective effect
- RoHS Compliant
- Follow UL248-14

## Electrical Characteristics

% of Ampere Rating	Opening Time
100%	4 hours Min.
200%	120 sec Max.

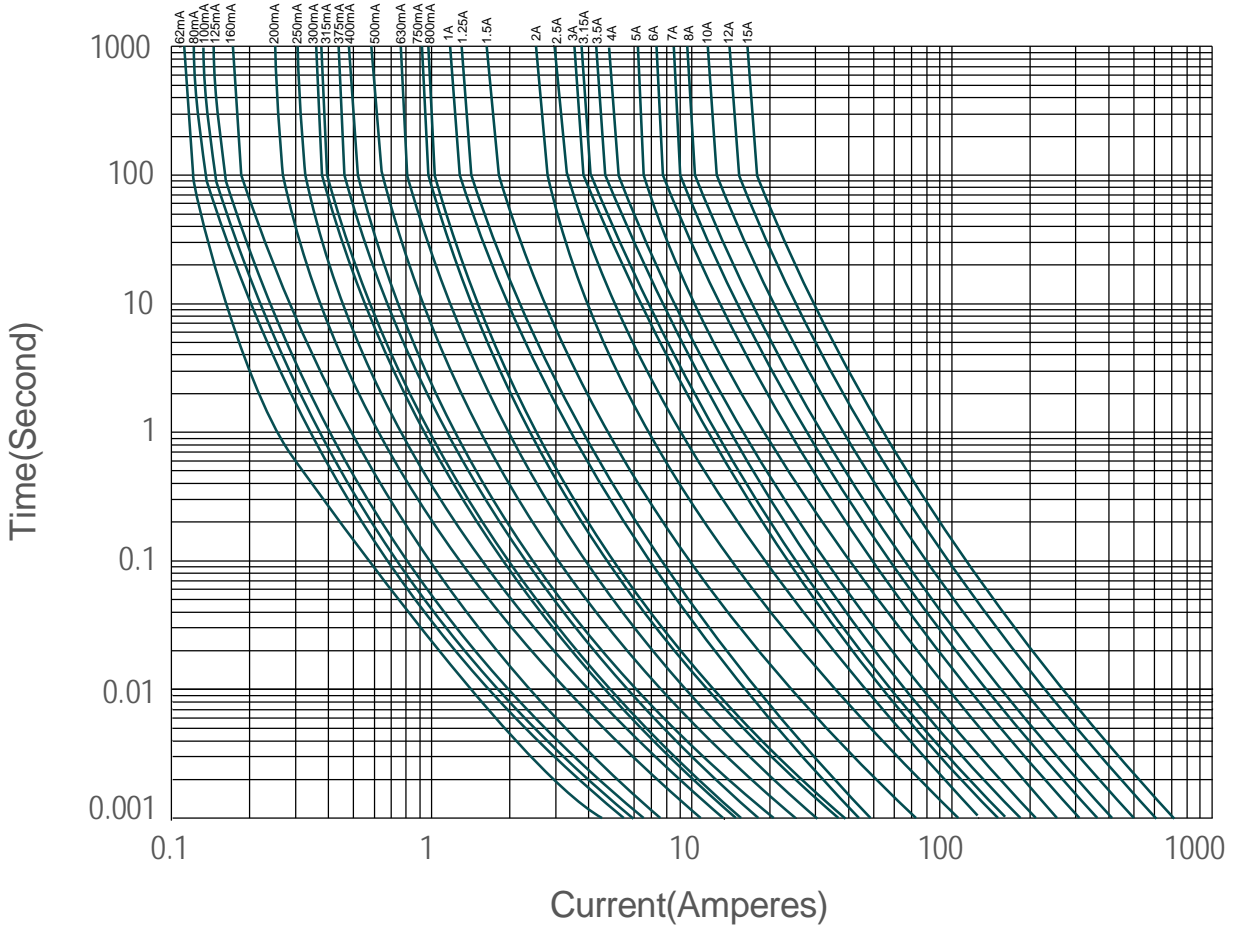
## Electrical Specifications by Item

Product model	Ampere Rating	Voltage Rating	Breaking Capacity	Cold Resistance (Ohms)	Melting thermal energy I <sup>2</sup> T(A <sup>2</sup> S)	Safety Approvals
						
TA0.05	50mA	125Vac	200A@125Vac	4.5453	0.002	•
TA0.062	62mA	125Vac		4.0562	0.003	•
TA0.08	80mA	125Vac		3.3937	0.006	•
TA0.1	100mA	125Vac		3.1868	0.009	•
TA0.125	125mA	125Vac		3.0065	0.014	•
TA0.16	160mA	125Vac		2.0613	0.024	•
TA0.2	200mA	125Vac		1.4222	0.038	•
TA0.25	250mA	125Vac		1.2163	0.059	•
TA0.315	315mA	125Vac		0.7753	0.094	•

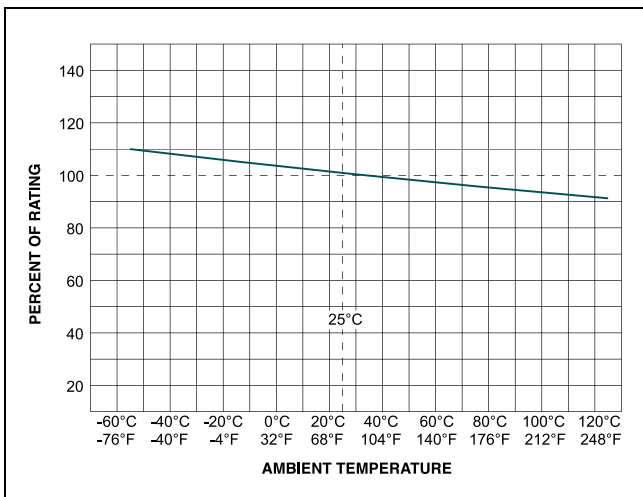
TA0.375	375mA	125Vac	200A@125Vac	0.4667	0.133	•
TA0.4	400mA	125Vac		0.4409	0.152	•
TA0.5	500mA	125Vac		0.2835	0.237	•
TA0.63	630mA	125Vac		0.2379	0.377	•
TA0.75	750mA	125Vac		0.1789	0.534	•
TA0.8	800mA	125Vac		0.1705	0.608	•
TA1	1A	125Vac		0.1153	0.950	•
TA1.25	1.25A	125Vac		0.0963	1.484	•
TA1.5	1.5A	125Vac		0.0705	2.137	•
TA2	2A	125Vac		0.0346	3.800	•
TA2.5	2.5A	125Vac		0.026	5.938	•
TA3	3A	125Vac		0.0204	8.550	•
TA3.15	3.15A	125Vac		0.0204	9.426	•
TA3.5	3.5A	125Vac		0.0196	11.637	•
TA4	4A	125Vac		0.0159	15.212	•
TA5	5A	125Vac		0.0119	23.751	•
TA6	6A	125Vac		0.0089	34.284	•
TA6.3	6.3A	125Vac		0.0088	37.705	•
TA7	7A	125Vac		0.0076	46.552	•
TA8	8A	125Vac		0.0068	60.813	•
TA10	10A	125Vac	0.004	95.489	•	
TA12	12A	125Vac	0.0031	136.762	•	
TA15	15A	125Vac	0.0023	213.750	•	

- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C;
- Typical Pre-arching I<sup>2</sup>t are calculated at 10\*In Current or 8ms;

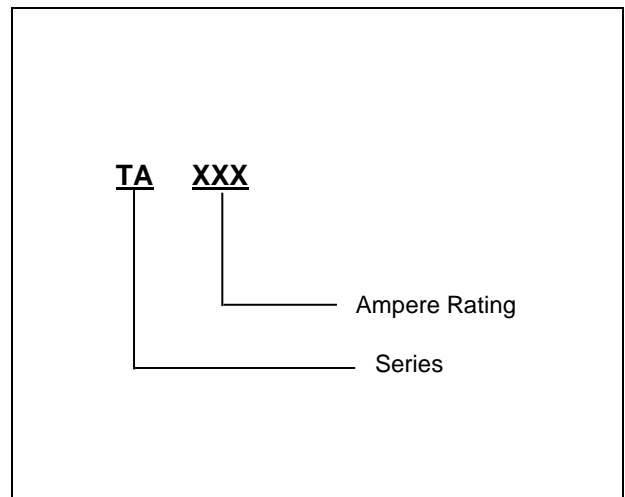
**Time Current Curves**



**Environmental Characteristic**

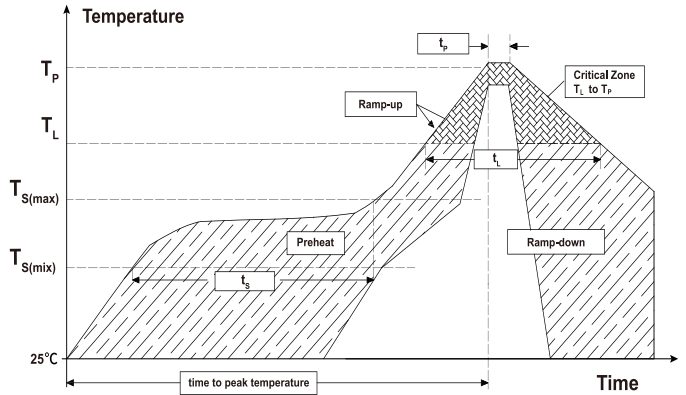


**Part Numbering System**

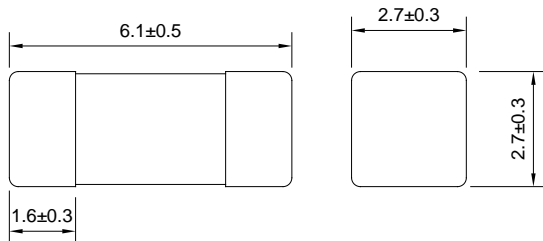
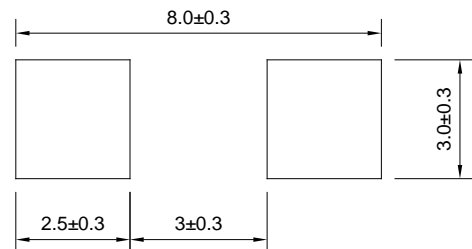


**Soldering Parameters**

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate ( $T_{S(max)}$ to $T_P$ )	5°C /second max.
Temperature Min ( $T_{S(min)}$ )	150°C
Temperature Max ( $T_{S(max)}$ )	200°C
Time (Min to Max) ( $t_s$ )	60-120 seconds
Temperature ( $T_L$ )	220°C
Time Max ( $t_L$ )	60 seconds
Peak Temperature ( $T_P$ )	260°C max
Ramp-down Rate	5°C/second max
Time 25°C to peak Temperature ( $T_P$ )	8 minutes max

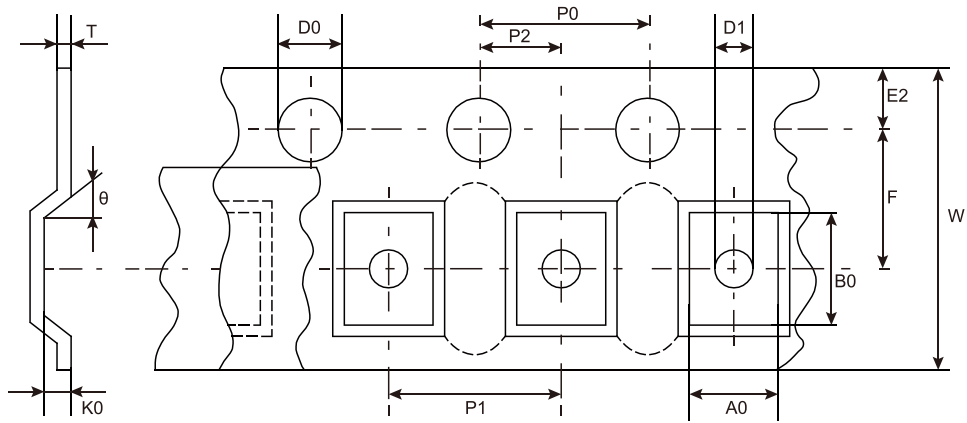

**Material Details**

Part Name	Material
End caps	Gold Plated Brass
Body	Non-Transparent Square Ceramic Tube
Fuse element	Cu-Ag Alloy wire

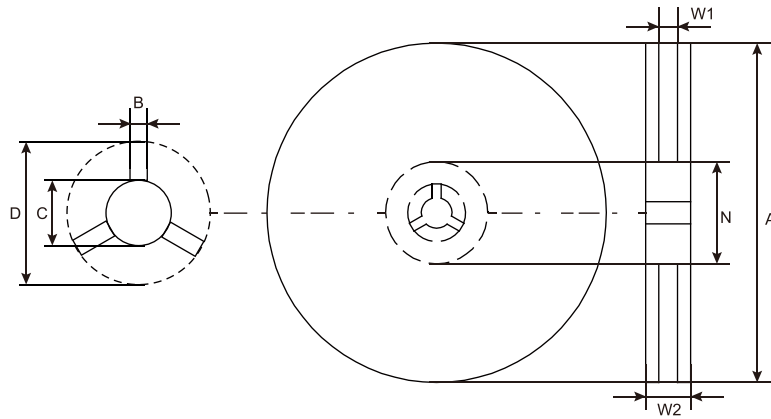
**Dimensions and Structure (Unit:mm)**

**Recommend pad layout (Unit:mm)**

**Packaging**

Part number	Quantity	Packaging Option	Packaging Specification
TAXXX	1500	Tape & Reel - 12mm tape/13" reel	EIA STD RS-481

Tape and Reel Specification



Item	A0	B0	D0	D1	E2	F	K0
Spec.(mm)	2.70±0.10	6.40±0.10	1.50+0.10	1.50+0.25	1.75±0.10	5.50±0.10	2.70±0.10
Item	P0	P1	P2	T	W	$\theta$	
Spec.(mm)	4.00±0.10	4.00±0.10	2.00±0.10	0.25±0.05	12.00±0.15	6°Max.	



Item	A	B	C	D	N	W1	W2
Spec.(mm)	178±0.10	60±0.50	13±0.20	21±0.20	2.2±0.20	12.5±0.20	14.5±0.20