

TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, 324, Taiwan, R.O.C. TEL: 886-3-4690038 FAX: 886-3-4697532 E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: LTCC Filter 5887.5 MHz SMD 2.5x2.0 mm (75MHz BW)

TST Part No.: TL0032A (AEC-Q200)

Customer Part No.:

	Customer signature require	ed	
	Company:		
	Division:		
	Approved by :		
	Date:		
Checked by:		Hong Pu Lin	
Арр	proved by:	Andy Yu	
Date	е:	2019/09/29	

- 1. Customer signed back is required before TST can proceed with sample build and receive orders.
- 2. Orders received without customer signed back will be regarded as agreement on the specifications.
- 3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the change

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TST DCC Release document



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LTCC Filter 5887.5 MHz SMD 2.5X2.0 mm (75 MHz BW)

MODEL NO.:TL0032A

A. MAXIMUM RATING:

- 1. Input power: 1W
- 2. Operating temperature range: -40 °C to +150 °C
- 3. Storage temperature range: -40 ℃ to +150 ℃
- 4. Moisture Sensitive Level: Level 1 (MSL1)

RoHS Compliant Lead free

Lead-free soldering

REV.1

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item		Unit	Min	Тур	Max
Center Frequency		MHz	5850	5887.5	5925
Insertion Loss (5850 ~ 5925) 25°C IL		dB	1.8	2.0	2.5
Insertion Loss (5850 ~ 5925) -40°C~125°C		dB	2.4	2.8	3.2
Insertion Loss (5850 ~ 5925) -40°C~150°C		dB	2.6	2.9	3.5
Band Width 5850 ~ 5925		MHz	75	80	90
Return Loss (in BW)		dB	10	13	30
	1908 ~ 1950 MHz	dB	50	52	70
Attenuation (dB)	3816 ~ 3900 MHz	dB	47	55	83
	11450 ~ 11700 MHz	dB	25	36	45
In/Outpu	Ω	50			
Input power (max.)		1W			

C. FREQUENCY CHARACTERISTICS:

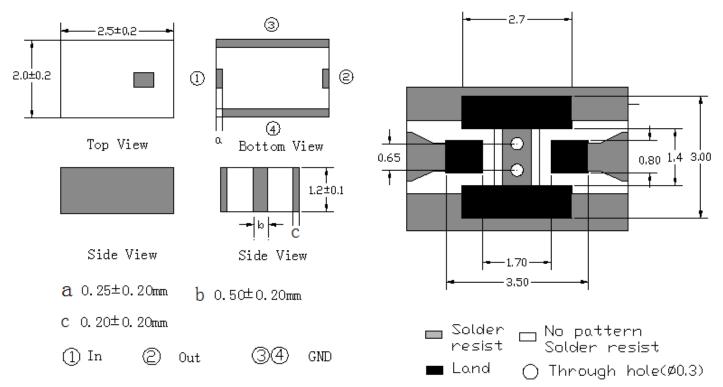
P12 C2(P12) R1 S21 LogMag Ref: TR1 TR1 TR1 TR1 TR1	0.000 dB /Div: 10.000 dB Pos: 100.0 %	1 [
	MKR06: 3.816 000 000GHz	-55.122 dB
	1 23	
•		
MKR01: 5.687 89\$ 750GHz	-1.61\$ dB	
MKR02: 5.850 000 000CHz MKR03: 5.925 000 000CHz MKR04: 1.908 000 000CHz MKR05: 1.950 000 000CHz	-1.90\$ dB -2.03\$ dB -51.43\$ dB -51.104 dB	
MKR06: 8.816 000 000GHz MKR07: 4.005 000 000GHz tart 10.000 000MHz	-55.122 dB -53.812 dB [10.00 dBm] Stop	8.000 000 000GHz



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D. DIMENSIONS: (Unit: mm)

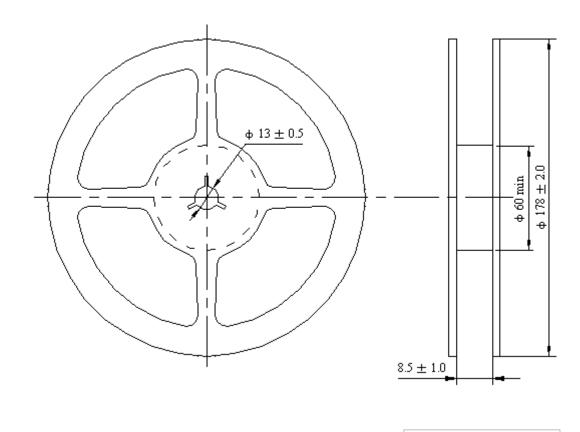


*****Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

E. PACKING:

1. REEL DIMENSION (2500 PCS/Reel)

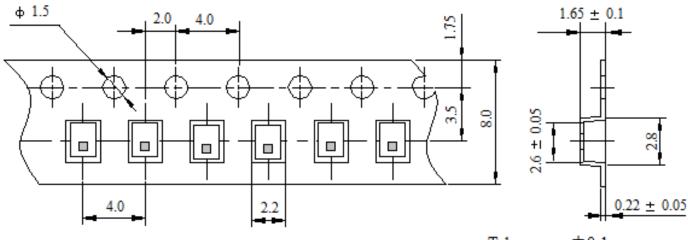
(Please refer to FR-75D10 for packing quantity)



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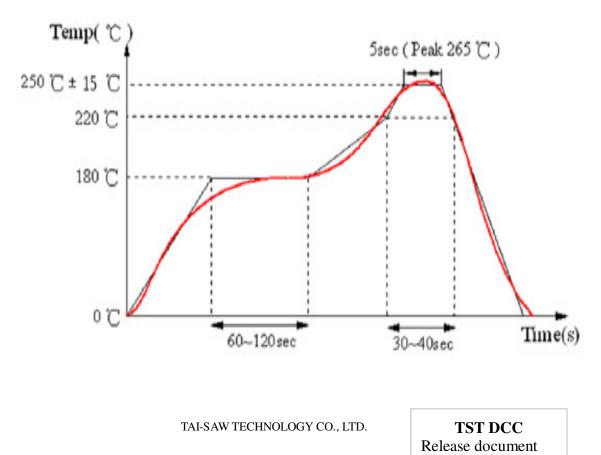
2. TAPE

DIMENSION (Unit: mm)



Tolerance: ±0.1mm

F. <u>RECOMMENDED REFLOW PROFILE</u>:



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