

TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: LTCC Filter 824 ~ 915(869.5) MHz SMD 1.0x0.5 mm (91MHz BW)
TST Part No.: TL0027A
Customer Part No.:
Customer signature required
Company:
Division:
Approved by :
Date:
Checked by: Hongpu Lin Hong Pa Lin
Approved by: Andy Yu Andy Andy Andy Andy Andy Andy Andy Andy
Date: 2019/04/18

2. Orders received without customer signed back will be regarded as agreement on the specifications.

1. Customer signed back is required before TST can proceed with sample build and receive orders.

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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LTCC Filter 824 ~ 915(869.5) MHz SMD 1.0X0.5 mm (91 MHz BW)

MODEL NO.:TL0027A REV.1

A. MAXIMUM RATING:

1. Operating temperature range: -40 °C to +85 °C

2. Storage temperature range: -40 °C to +85 °C

3. Moisture Sensitive Level: Level 1 (MSL1)

RoHS Compliant Lead free Lead-free soldering

Electrostatic Sensitive Device (ESD)

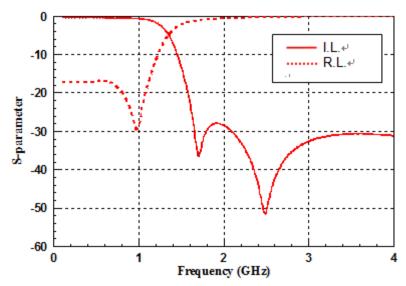
B. ELECTRICAL CHARACTERISTICS:

Source impedance (unbalanced): $Zs = 50 \Omega$ $ZL = 50 \Omega$ Load Impedance (balanced)

ltem		Unit	Spec	
Frequency Range		MHz	824~915(869.5)	
Insertion loss	+2 5℃	dB	0.65 Max	
	-40°C ~ +85°C	dB	0.85 Max	
Attenuation (Reference level from 0 Db)				
1648 ~ 1830 MHz		dB	25 Min	
2472 ~ 2745 MHz	dB	25 Min		
3296 ~ 3660 MHz	dB	25 Min		
VSWR		2.0 Max		

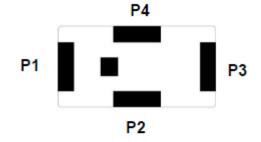
C. FREQUENCY CHARACTERISTICS:

Frequency Response



D. Outline Drawing:

CONSTRUCTION

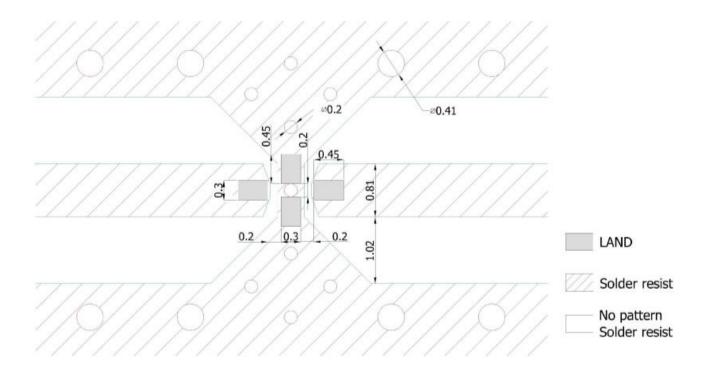


PIN	Connection		
1	Input port		
2	GND		
3	Output port		
4	GND		

DIMENSIONS

Figure	Symbol	Dimension (mm)
D	L	1.00 ± 0.10
A B	w	0.50 ± 0.10
	Т	0.40 ± 0.10
	A	0.35 ± 0.10
	В	0.30 ± 0.10
	С	0.15 ± 0.10
	D	0.15 ± 0.10
	E	0.30 ± 0.10

E. PCB Footprint:

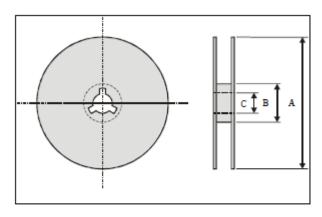


Unit : mm Line width to be designed to match 50 $\,\Omega\,$ characteristic impedance, depending on PCB material and thickness.

F. PACKING:

1. REEL DIMENSION (4000 PCS)

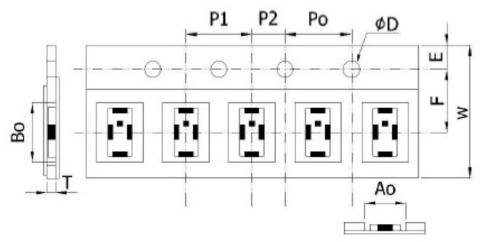
(Please refer to FR-75D10 for packing quantity)



Index	Α	В	С
Dimension (mm)	Ф178.0	Φ60.0	Ф13.0

2. TAPE

DIMENSION (unit:mm)



Paper Tape specifications (unit:mm)

Index	Ao	Во	ΦD	Т	W
Dimension (mm)	0.67 ± 0.10	1.14 ± 0.10	1.50 + 0.10	0.42 ± 0.10	8.0 ± 0.30
Index	E	F	Po	P1	P2
Dimension (mm)	1.75 ± 0.10	3.50 ± 0.20	4.00 ± 0.10	2.00 ± 0.10	2.00 ± 0.10

G. RECOMMENDED REFLOW PROFILE:

- 1. Preheating shall be fixed at $150\sim180^{\circ}$ C for $60\sim90$ seconds.
- 2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
- 3. Heating shall be fixed at 220° C for $50{\sim}80$ seconds and at $245{\sim}260^{\circ}$ C peak (min. 10sec).
- 4. Time: 2 times.

