



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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## Product Specifications Approval Sheet

Product Description: Low Pass Filter 915(902~928) MHz 2.0X1.25 mm

TST Parts No.: TL0020A

Customer Parts No.: \_\_\_\_\_

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: \_\_\_\_\_ Hong Pu Lin *Hong Pu Lin*

Approval by: \_\_\_\_\_ Andy Yu *Andy Yu*

Date: \_\_\_\_\_ 2020 / 11 / 30

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 changes.



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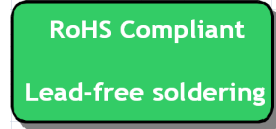
## Low Pass Filter 902 ~ 928MHz 2.0X1.25 mm

MODEL NO.:TL0020A

REV. NO.:2.0

### A. Maximum Rating:

1. Operating Temperature: -40°C to +85°C
2. Storage Temperature: -40°C to +85°C
3. Input Power Level:30 dBm
4. Moisture Sensitivity Level: Level (MSL1)

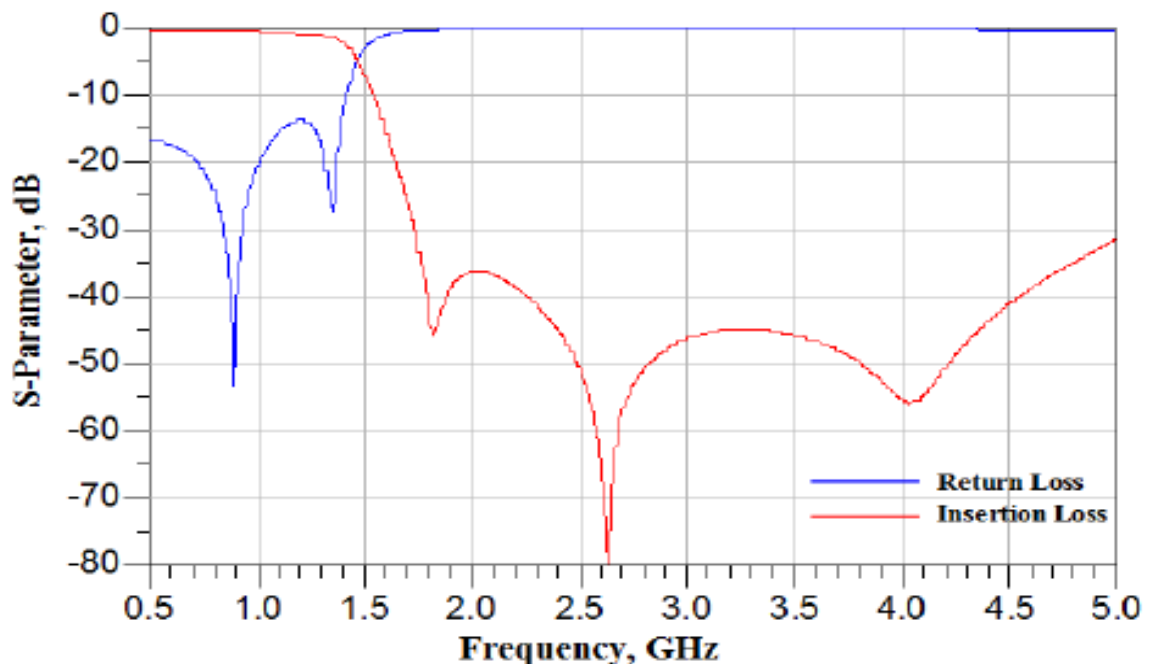


Electrostatic Sensitive Device (ESD)

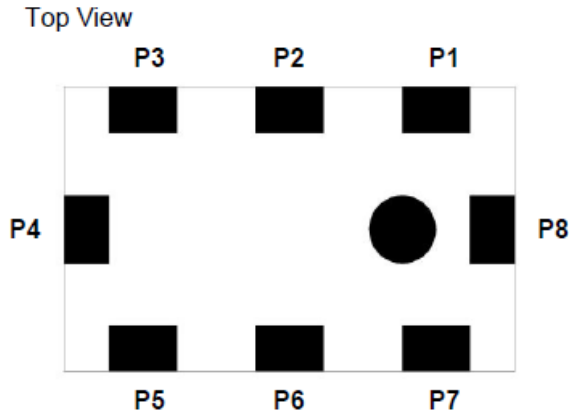
### B. Electrical Characteristics:

Item	Unit	Spec	Note
<b>Center Frequency</b> Fc	MHz	915	
<b>Insertion Loss</b> (902~928 MHz)	dB	0.5 Max	at 25°C
<b>Insertion Loss</b> (902~928 MHz)	dB	0.7 Max	at-40°C~85°C
<b>Return Loss</b> (902~928 MHz)	dB	14 Min	
<b>Attenuation</b>			
1804 ~ 1856 MHz	dB	30	
2705 ~ 2784 MHz	dB	30	
<b>Impedance</b>	Ohm	50	

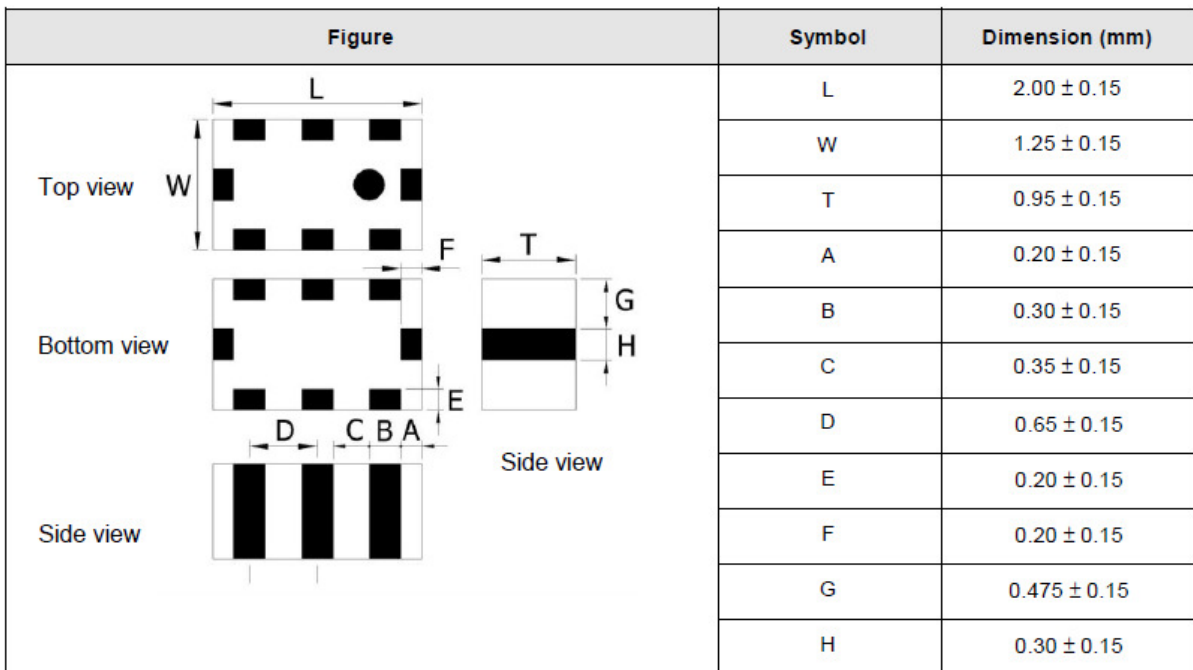
### C. Frequency Characteristics:



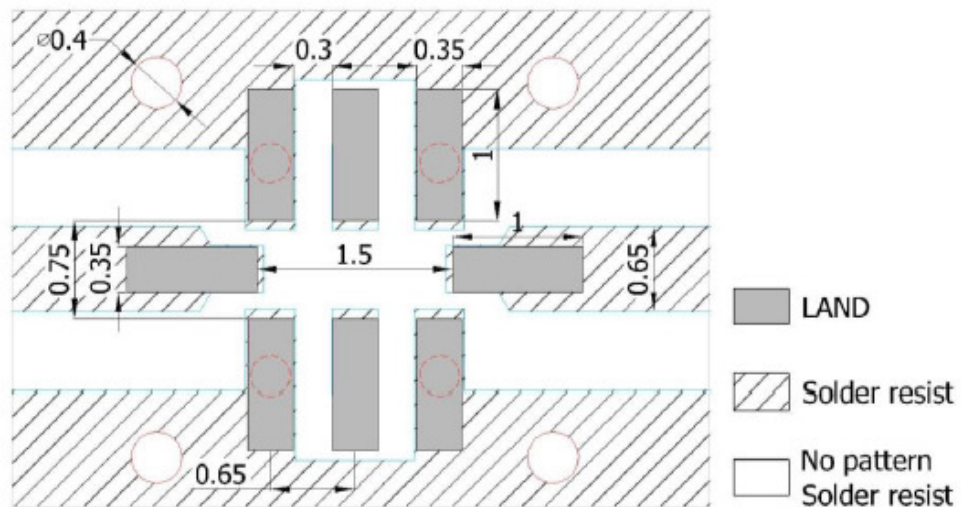
**D. Outline Drawing:**



PIN	Definition	PIN	Definition
P1	Ground	P5	Ground
P2	NC	P6	NC
P3	Ground	P7	Ground
P4	Input / output	P8	Input / output



**E. PCB Footprint:**



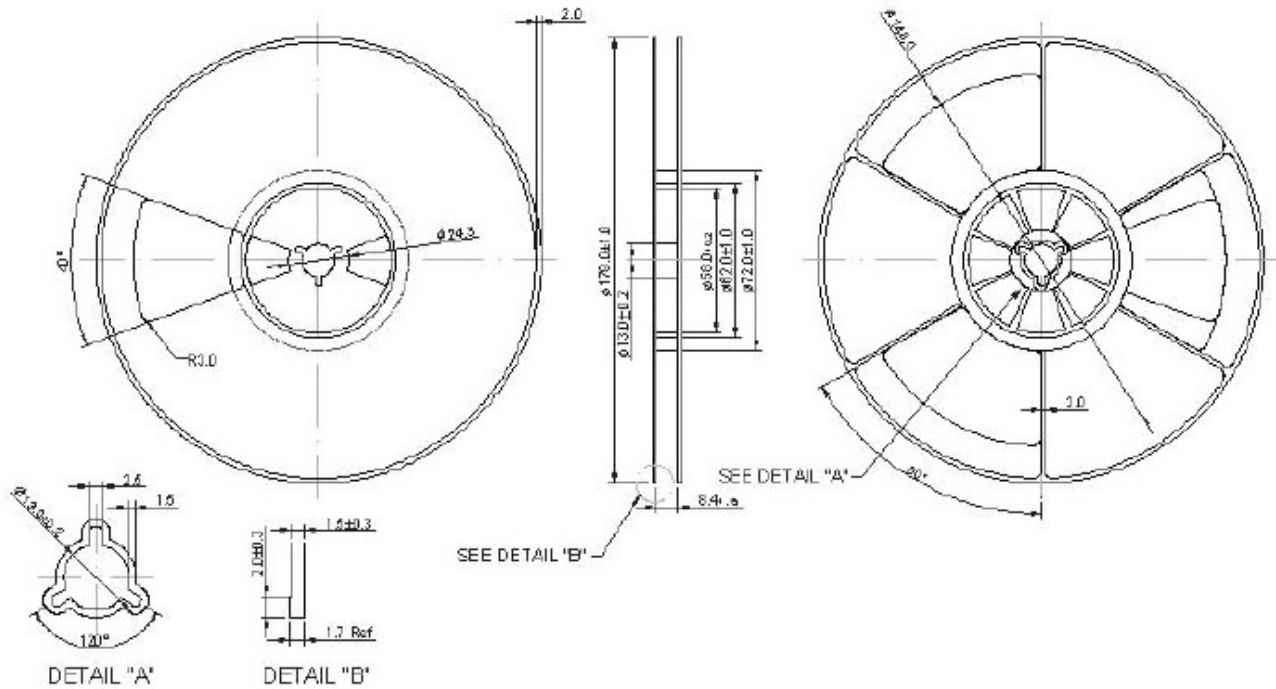
Unit : mm

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

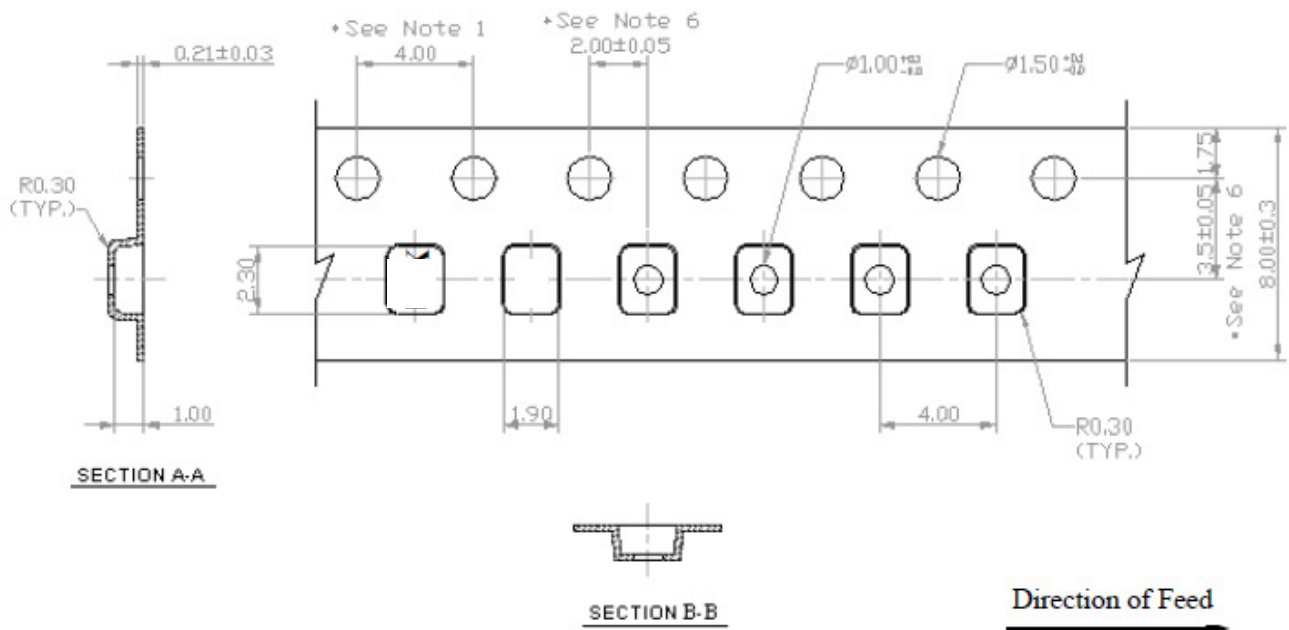
## F. Packing

### 1. REEL DIMENSION

(Reel Count : 7"=2000 )

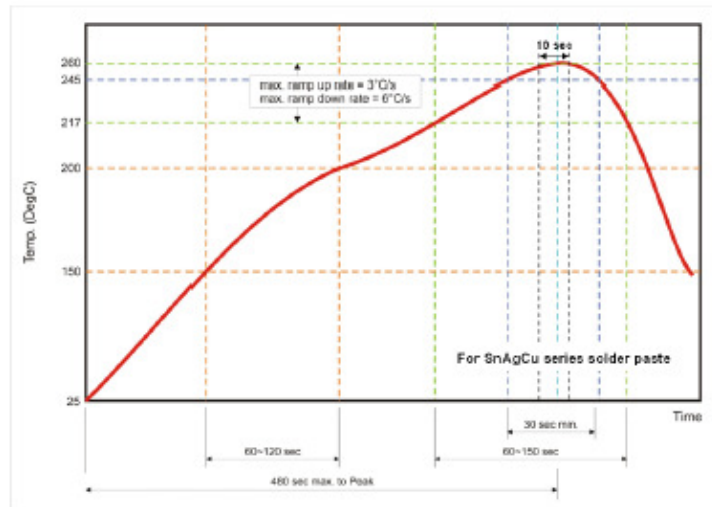


### 2. Tape Dimension



## G . Recommended reflow profile :

Typical examples of soldering processes that provide reliable joints without any damage are given in Fig 2,



**Fig 2. Infrared soldering profile**