



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Name: Filter 1900/2017.5MHz (BW 40/15MHz) SMD 3.0x3.0 mm

TST Parts No.: TE0117A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Andy Yu *Andy Yu*

Approval by: _____ Bob Chau *Bob Chau*

Date: _____ 2014/12/30

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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SAW Filter 1900/2017.5MHz (BW 40/15MHz) SMD 3.0x3.0 mm

MODEL NO.:TE0117A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

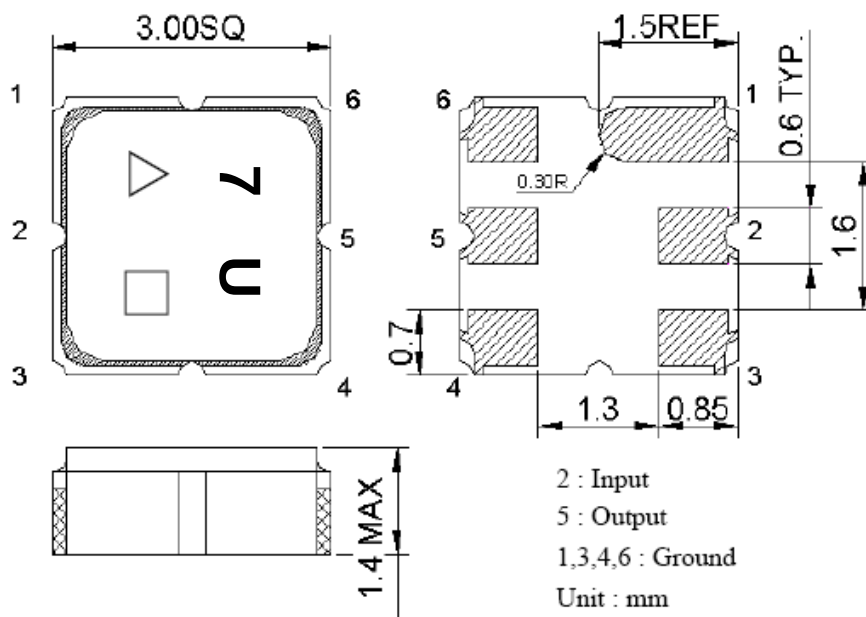
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

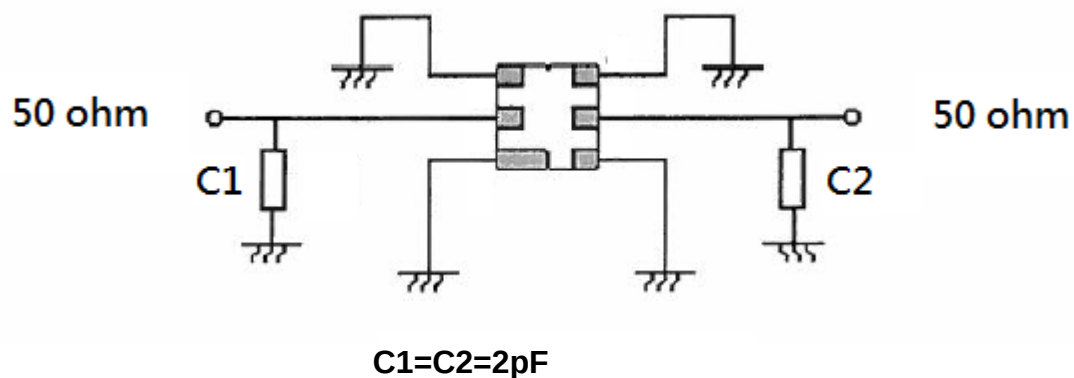
Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	1900/ 2017.5	-	-
Max. Insertion Loss (1880 ~ 1920 MHz) IL	dB	-	4.5	5.5	-
Max. Insertion Loss (2010 ~ 2025 MHz) IL	dB	-	4.5	5.5	-
Amplitude Ripple (1880 ~ 1920 MHz)	dB	-	1.2	2.0	-
Amplitude Ripple (2010 ~ 2025 MHz)	dB	-	1.2	2.0	-
Input VSWR (1880 ~ 1920 MHz)			2.1	2.3	
Output VSWR (2010 ~ 2025 MHz)			2.1	2.3	
Source/ Load Impedance (single ended)	Ω	-	50	-	-
Attenuation					
0.3 ~ 1700 MHz	dB	30	36	-	-
1700 ~ 1785 MHz	dB	27	32	-	-
1785 ~ 1850 MHz	dB	15	19	-	-
1941 ~ 1945 MHz	dB	15	33	-	-
1945 ~ 1965 MHz	dB	20	34	-	-
1965 ~ 1980 MHz	dB	15	30	-	-
2045 ~ 2055 MHz	dB	3	6	-	-
2055 ~ 2070 MHz	dB	6	10	-	-
2070 ~ 2110 MHz	dB	25	40	-	-
2110 ~ 2125 MHz	dB	33	39	-	-
2125 ~ 2162 MHz	dB	30	38	-	-

2162 ~ 2300 MHz	dB	30	33	-	-
2300 ~ 3000 MHz	dB	25	30	-	-
3000 ~ 6000 MHz	dB	15	18	-	-
Package size	mm	SMD 3.0x3.0			

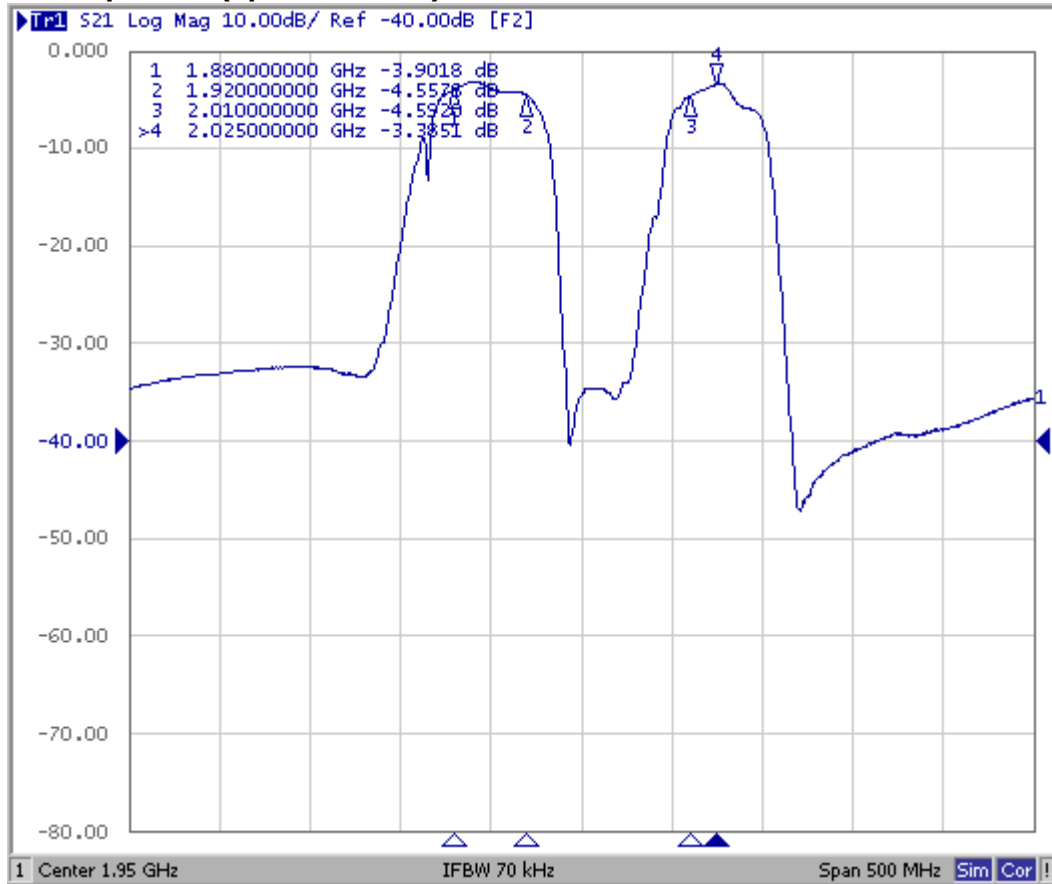
C.OUTLINE DRAWING:



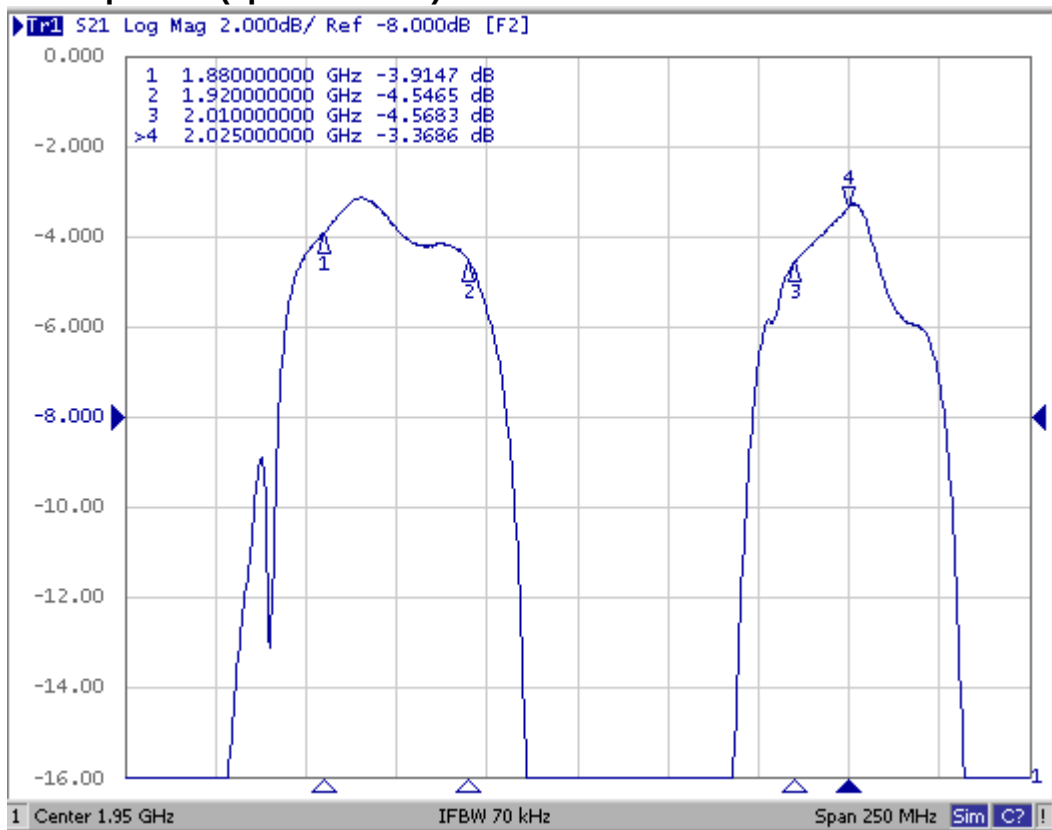
D. MEASUREMENT CIRCUIT:



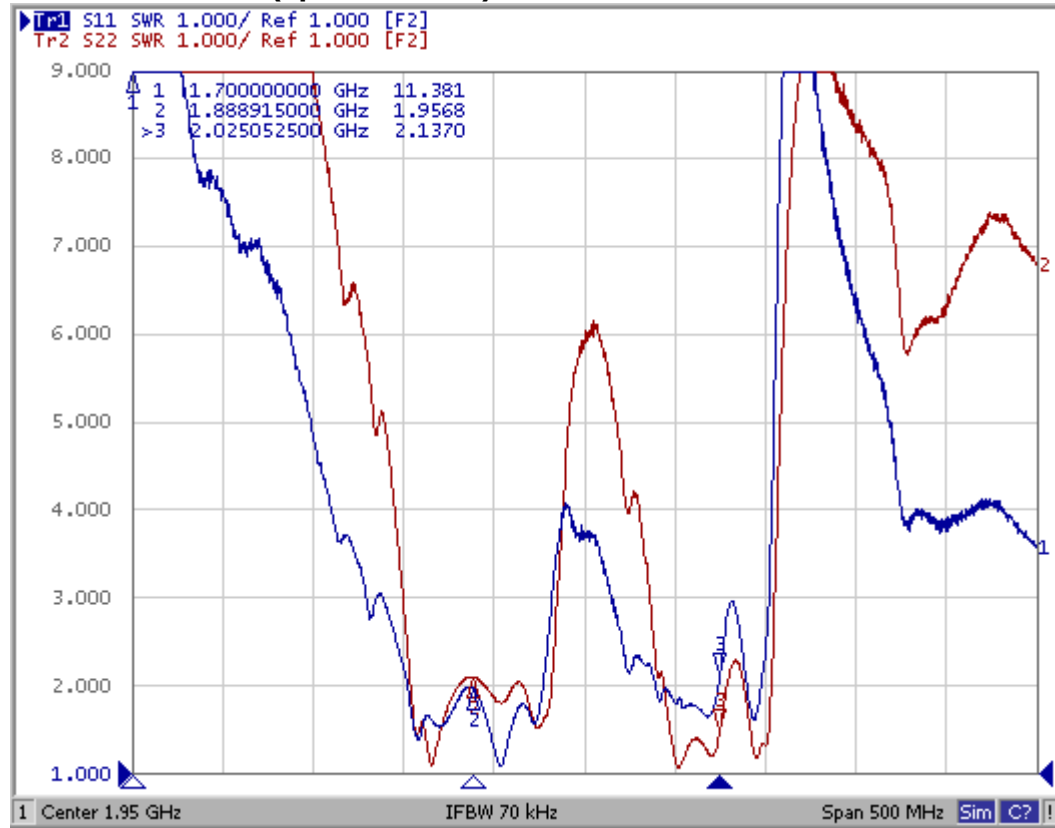
E. Frequency Characteristics :
S21 response: (span 500MHz)



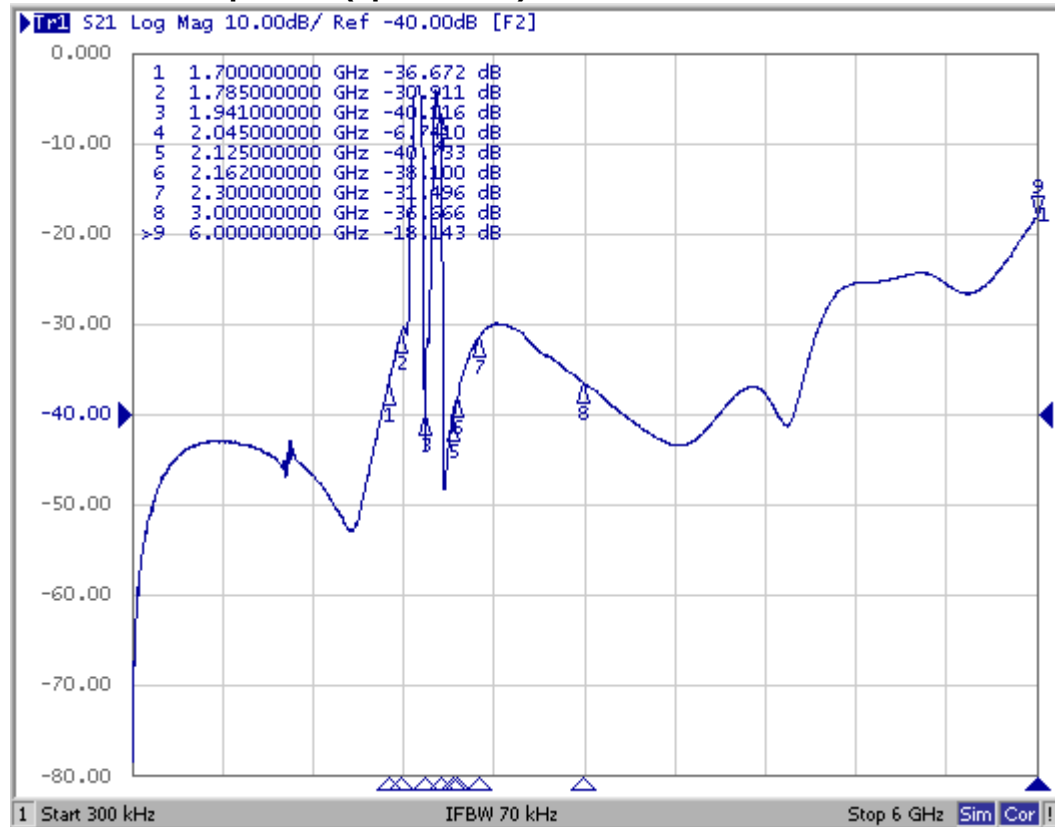
S21 response: (span 250MHz)



S11&S22 VSWR: (span 250MHz)

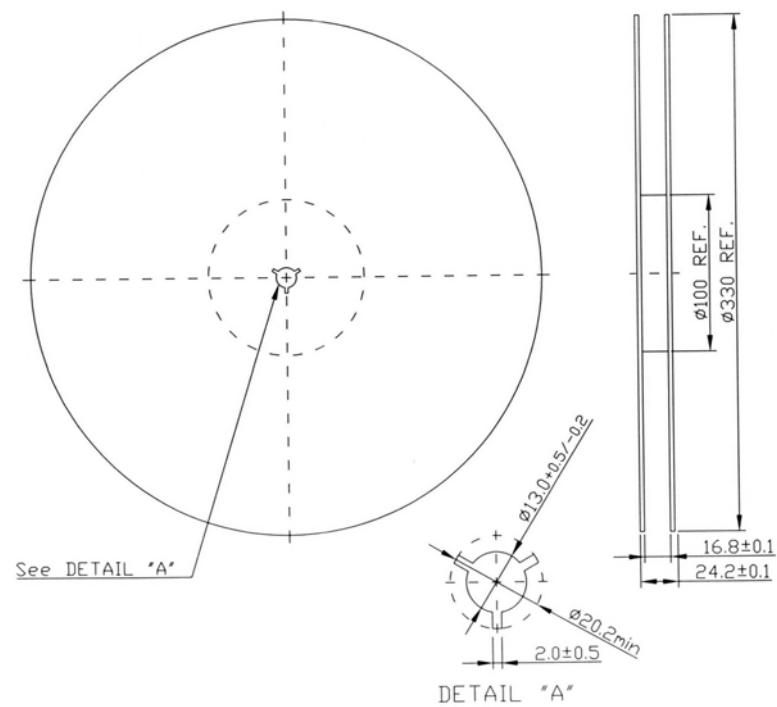


Wide band response: (span 6GHz)

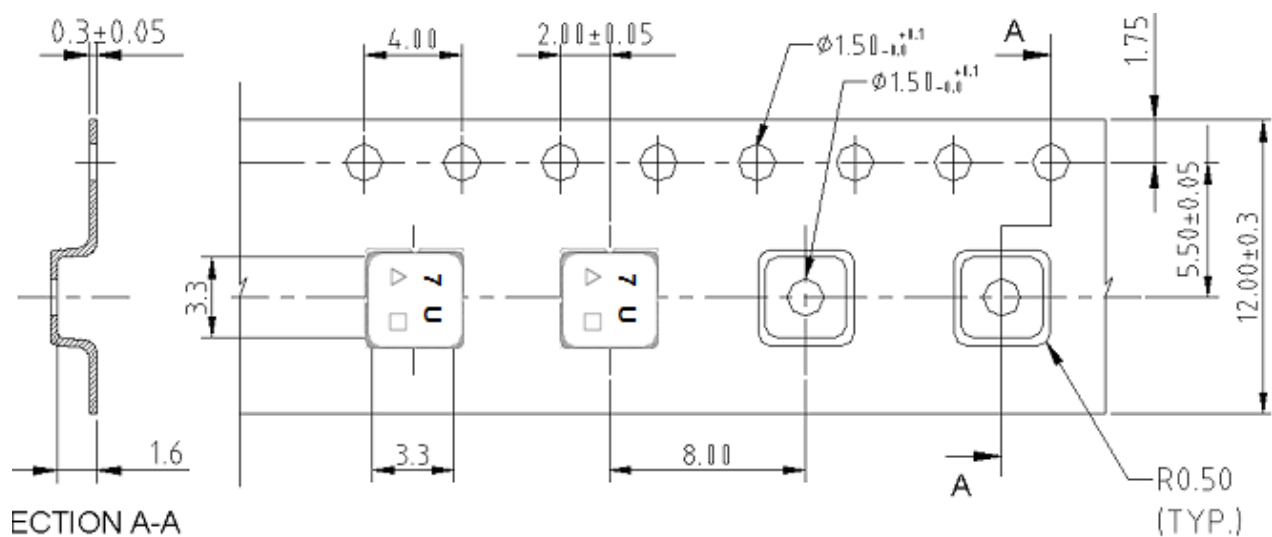


1. REEL DIMENSION

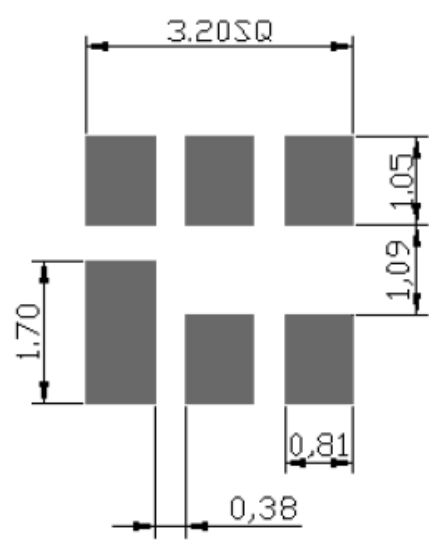
(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



G. PCB Footprint:



H. RECOMMENDED REFLOW PROFILE :

