



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 Name: SAW Filter 427.5 MHz BW 5MHz SMD 3.0X3.0 mm

TST Parts No.: TA2300A

Customer Parts No.: _____

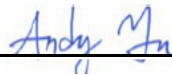
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ V.J Fanchian 

Approval by: _____ Andy Yu 

Date: _____ 09/15/2017

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 427.5 MHz BW 5MHz SMD 3.0X3.0 mm

MODEL NO.: TA2300A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitivity Level: Level 1(MSL1)

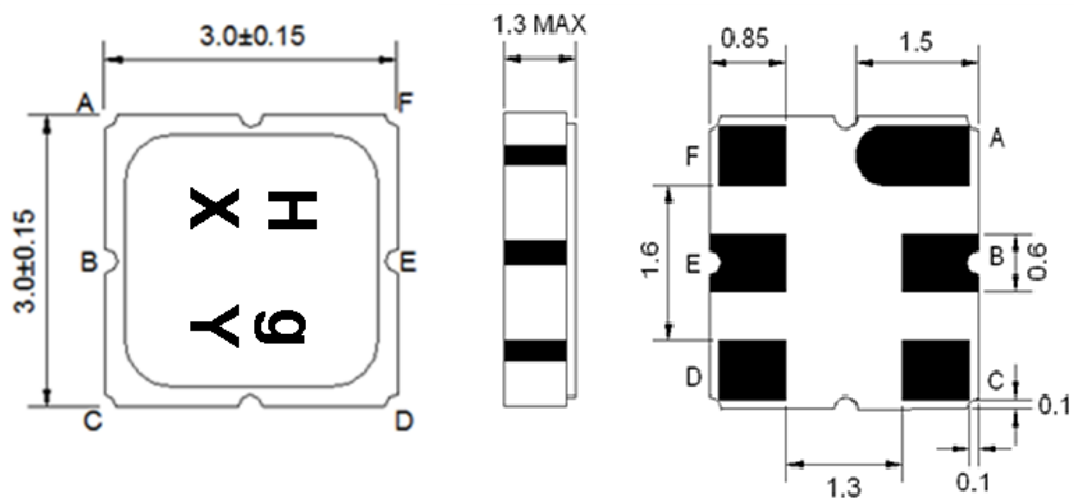
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, F_c	MHz	-	427.5	-	
Insertion Loss(min)	dB	-	1.0	1.5	
Insertion Loss 425.00 - 430.00 MHz	dB		2.0	2.5	
VSWR 425.00 - 430.00 MHz	-	-	1.5	2.0	
Amplitude Ripple (p-p) 425.00 - 430.00 MHz	dB		0.6	1.0	
Group Delay 425.00 - 430.00 MHz	nS		50	120	
Attenuation:(Reference level from 0 dB)					
DC - 410.00 MHz	dB	25.0	30.0		
435.00 - 440.00 MHz	dB	35.0	40.0		
447.00 - 480.00 MHz	dB	30.0	32.0		
480.00 - 1500.00 MHz	dB	25.0	30.0		
Impedance at F _c :Input $Z_{IN} = R_{IN} // C_{IN}$ Output $Z_{out} = R_{IN} // C_{IN}$		50 Ω // 0pF 50 Ω // 0pF			

C.OUTLINE DRAWING:



Pin Description	
A, C, D, F	Ground
E	In
B	Out

Marking Descriptions	
H	CDMA450 Application
g	Series Number
X	Date Code(Year)
Y	Date Code(Month)

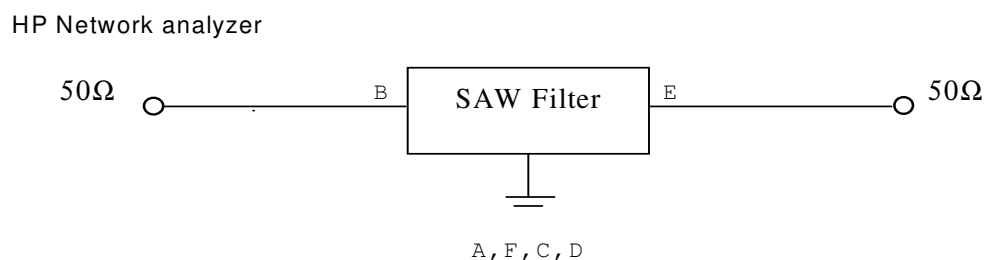
X : Year code

X (Year)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	E	F	G	H	J	K	L	M	N	P	Q	R

Y : Month code

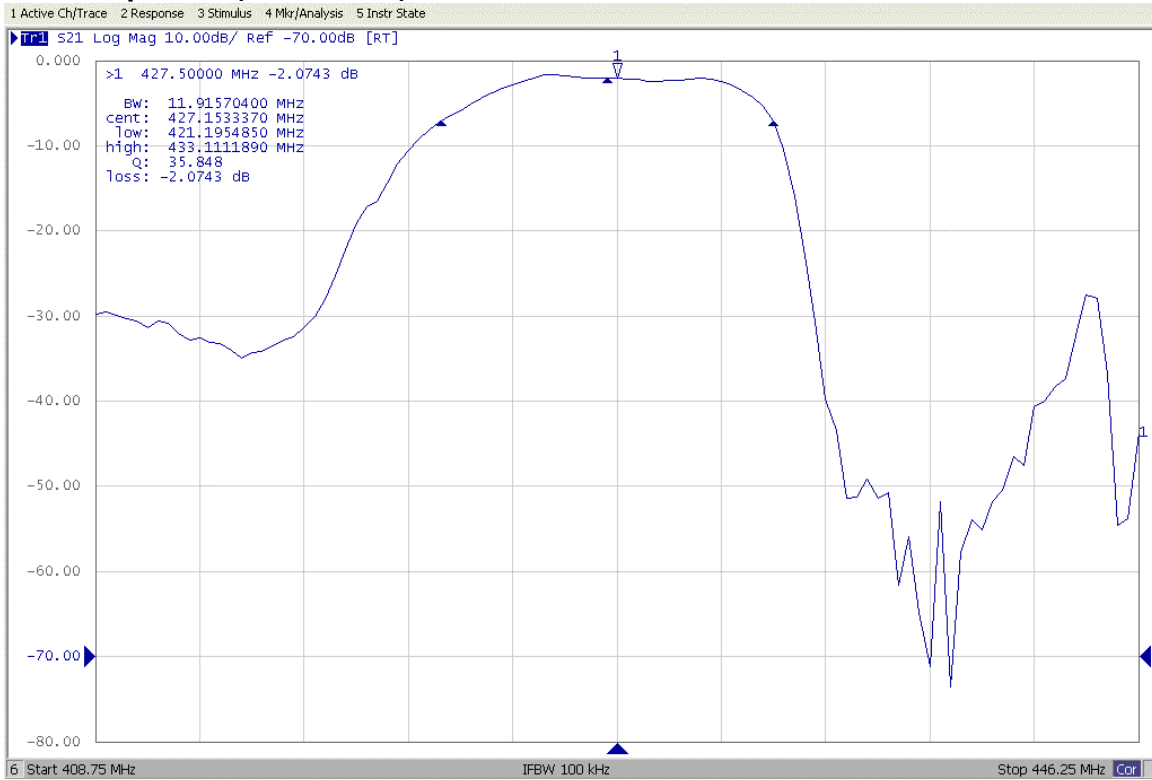
Y (Month)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	1	2	3	4	5	6	7	8	9	A	B	C

D. MEASUREMENT CIRCUIT:

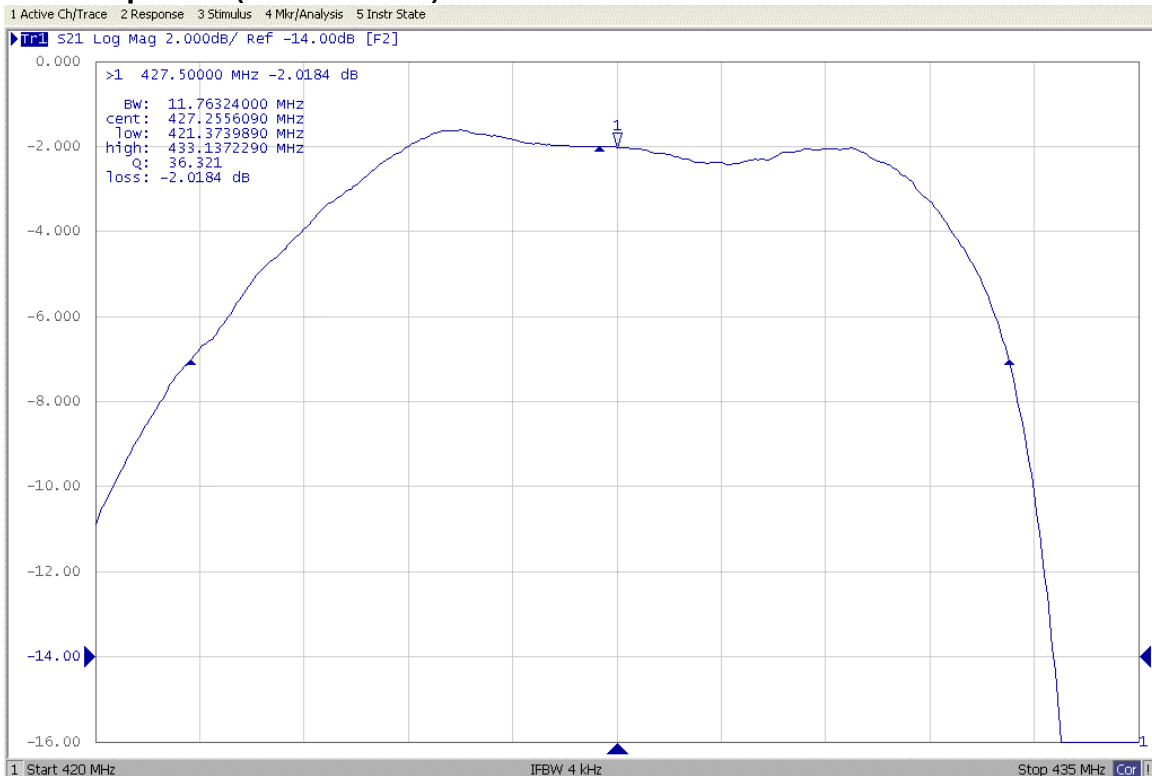


E. FREQUENCY CHARACTERISTICS:

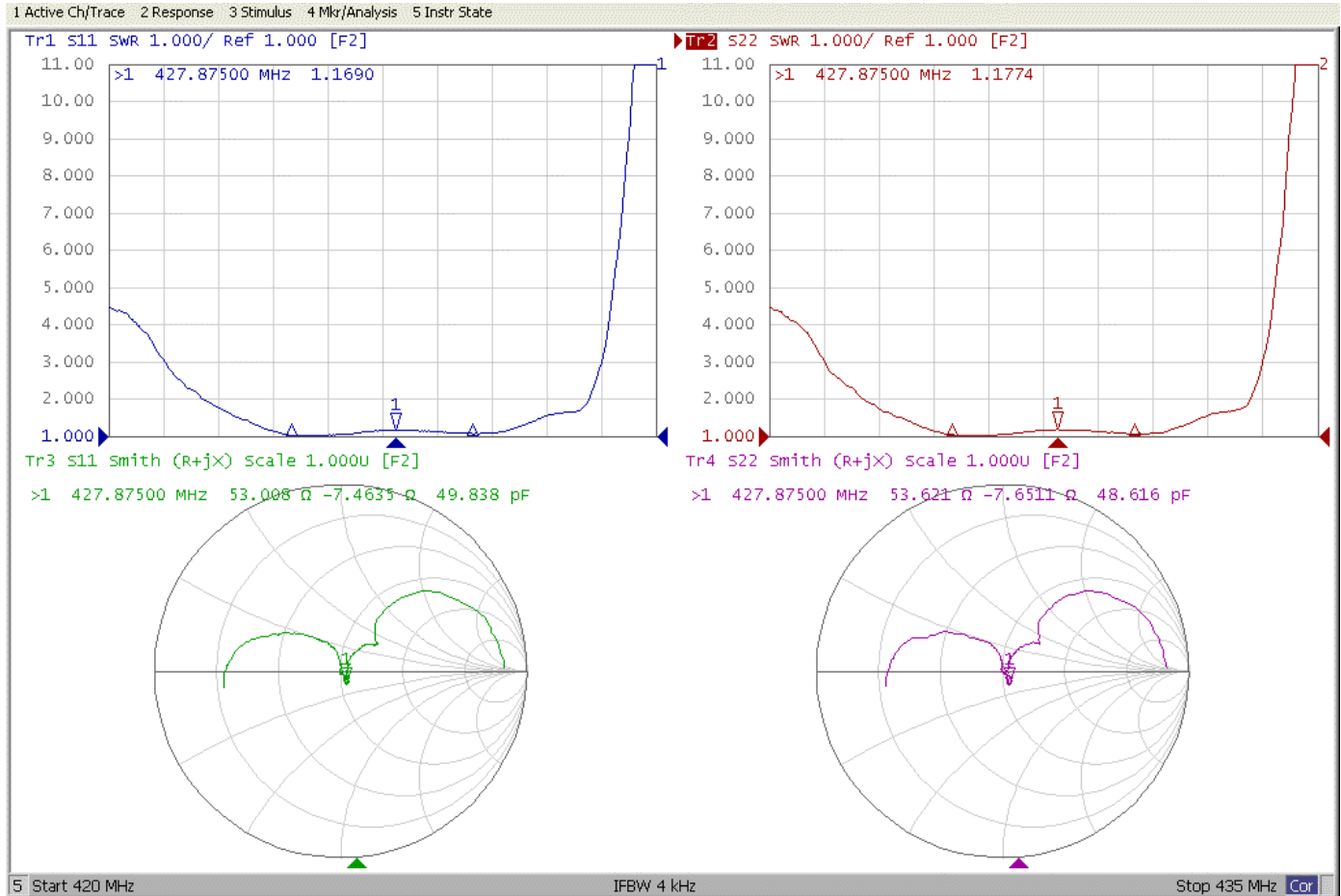
S21 response: (Wide Band)



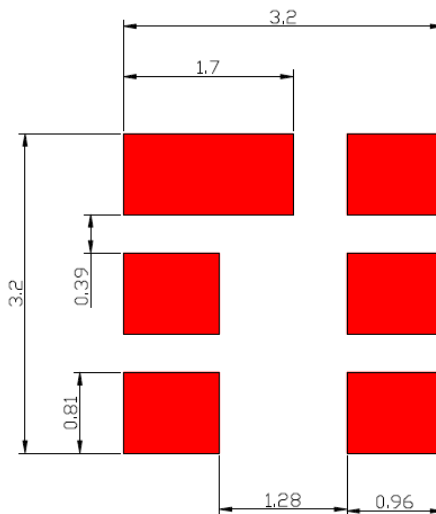
S21 response: (Narrow Band)



S11&S22 VSWR & Smith-Chart :



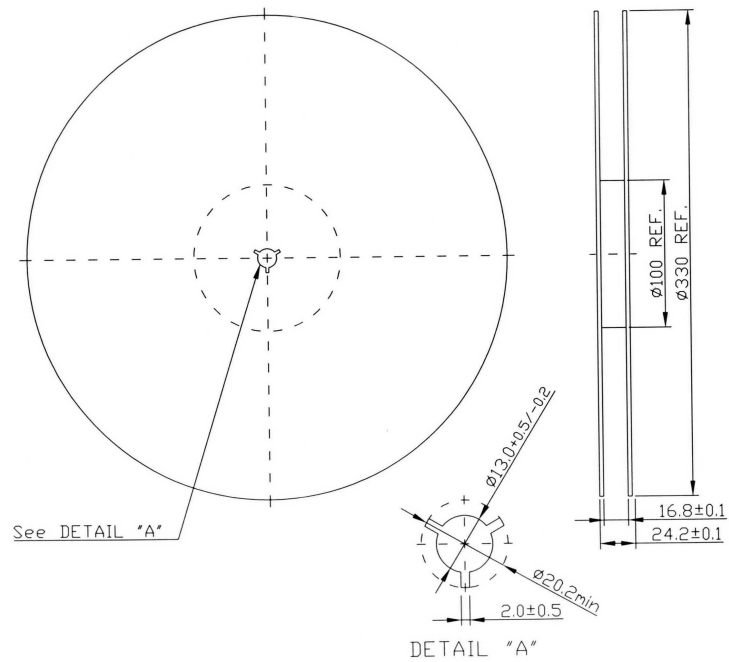
F. PCB FootPrint



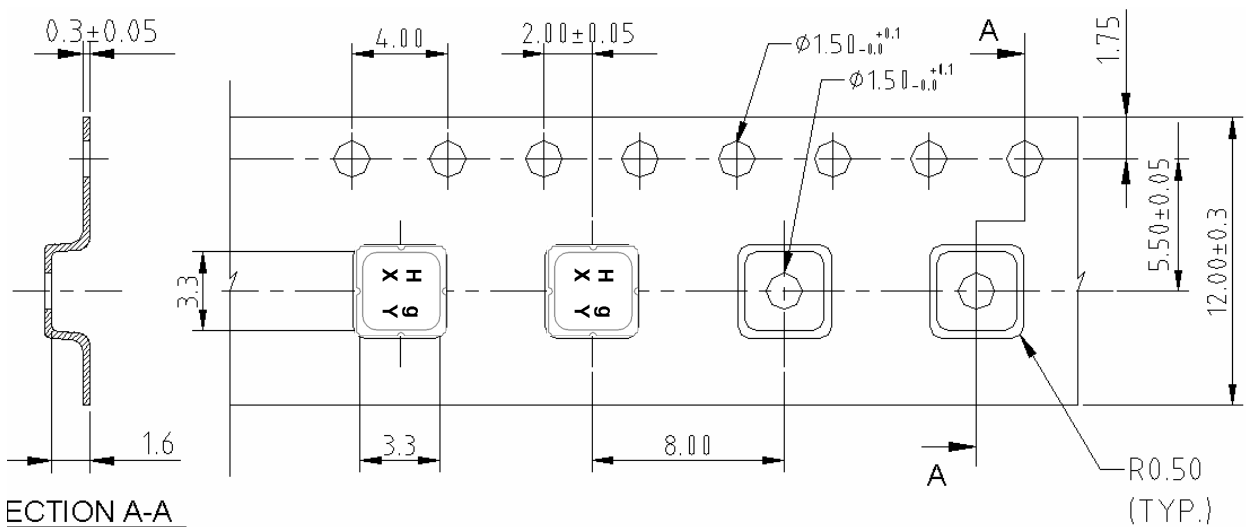
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

