



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: SAW Filter 1420 MHz SMD 3.0X3.0 mm

TST Part No.: TA0890B

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau 

Approved by: _____ Francis Chen 

Date: _____ 4, 20, 2010

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 1420 MHz

MODEL NO.:TA0890B

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

RoHS Compliant
Lead free
Lead-free soldering

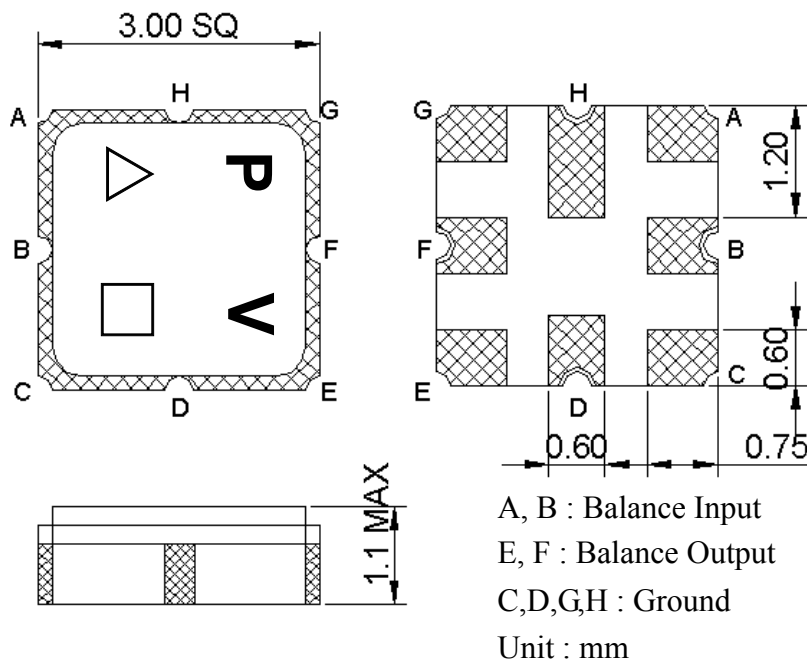
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (differential) : $Z_s = 150 \Omega // 18 \text{ nH}$

Terminating load impedance (differential) : $Z_L = 150 \Omega // 18 \text{ nH}$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1420	-	-
Bandwidth at -1.5 dB	MHz	27	64	-	-
Insertion Loss in 1406.5~1433.5 MHz	dB	-	2.7	5	-
Amplitude ripple (1406.5 MHz ~ 1433.5 MHz)	dB	-	0.4	1.5	-
Phase error (1406.5 MHz ~ 1433.5 MHz)	deg	-	2.5	5	-
I/O VSWR (1406.5 MHz ~ 1433.5 MHz)		-	1.9	2.5	-
CMDR (1406.5 MHz ~ 1433.5 MHz)	dB	25	32	-	-
Attenuation (Reference level from 0 dB)					
50 ~ 1320 MHz	dB	42	49.5	-	-
1530 ~ 3000 MHz	dB	42	49.5	-	-
3000 ~ 4000 MHz	dB	30	32	-	-
4000 ~ 6000 MHz	dB	15	20	-	-

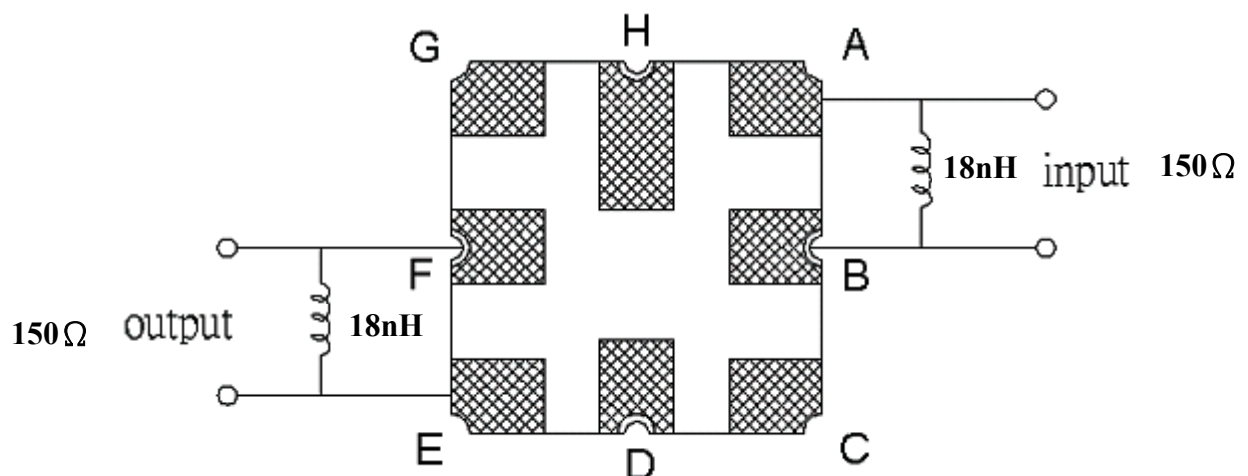
C.OUTLINE DRAWING:



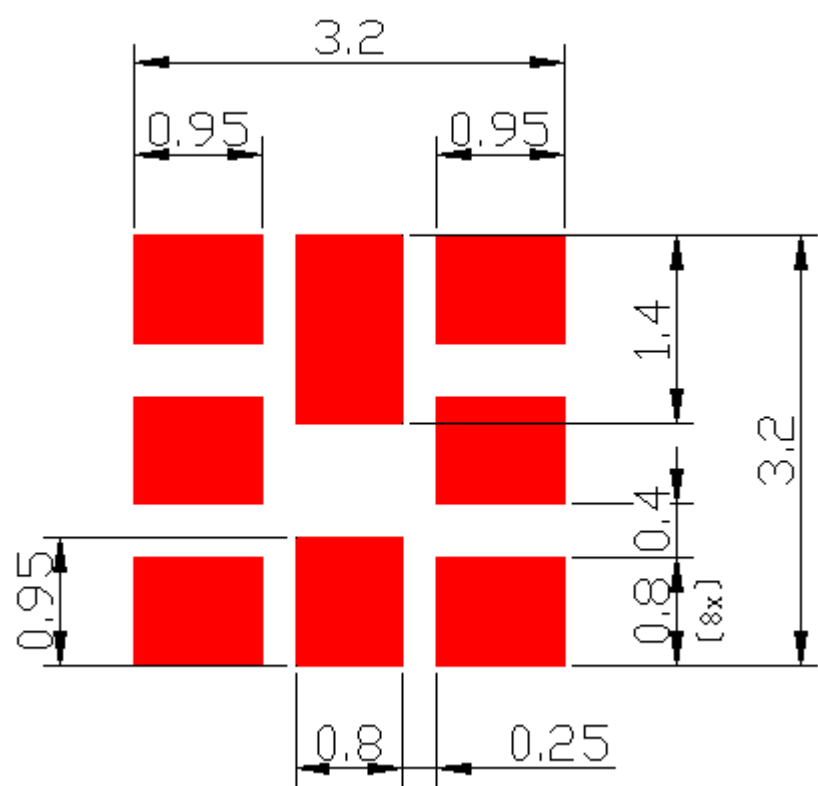
△ : Year Code (2009->9, 2010->0,..., 2018->8)

□ : Date Code (W01->A,...W26->Z,...W52->z)

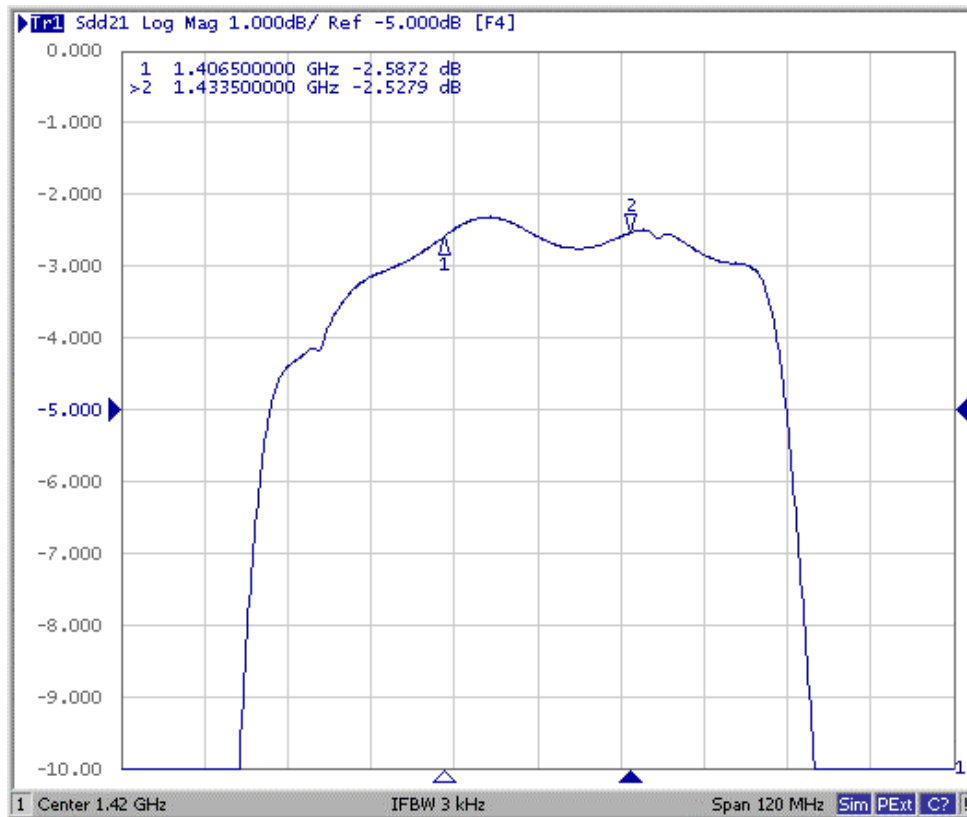
D. MEASUREMENT CIRCUIT:

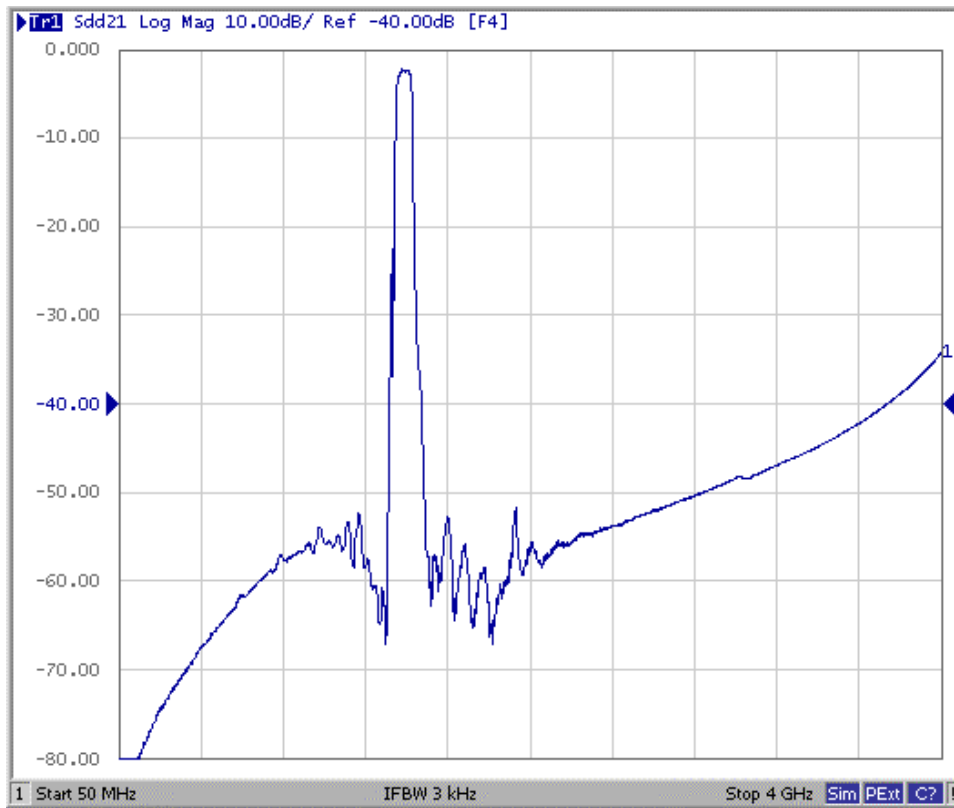


E. PCB Footprint:



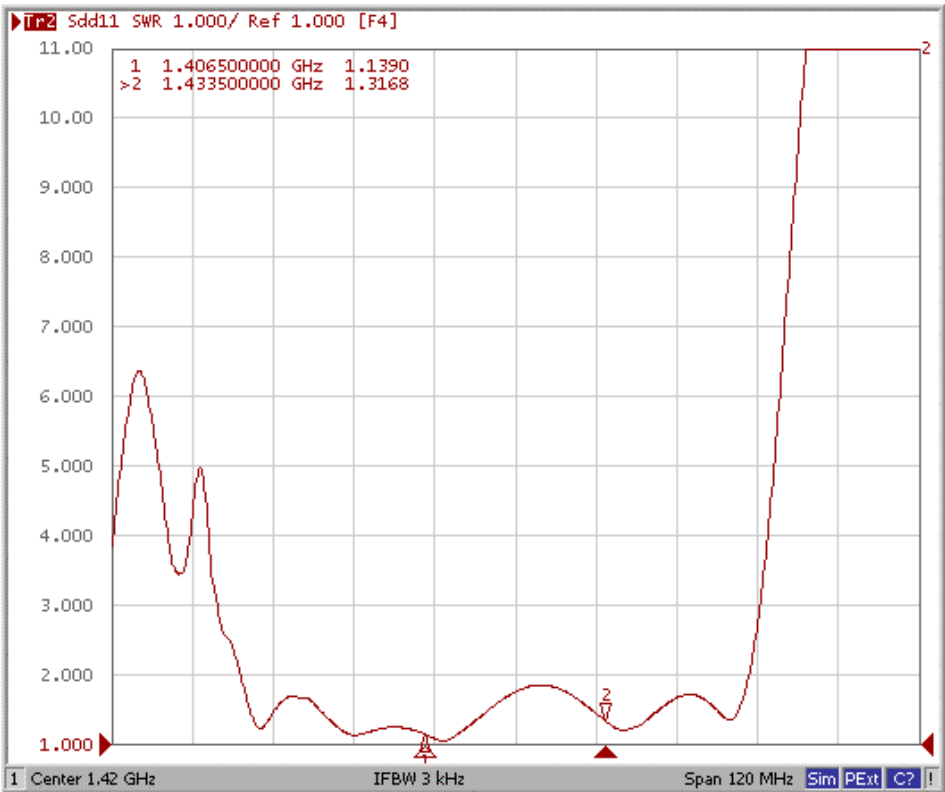
F. Frequency Characteristics :



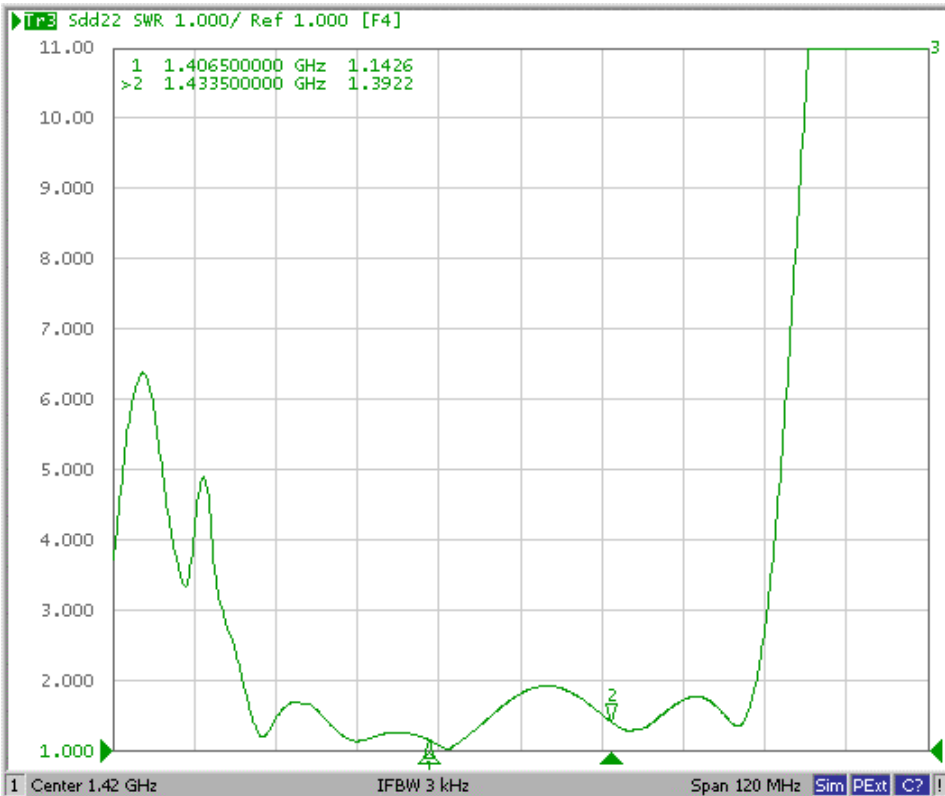


Reflection Functions :

S11



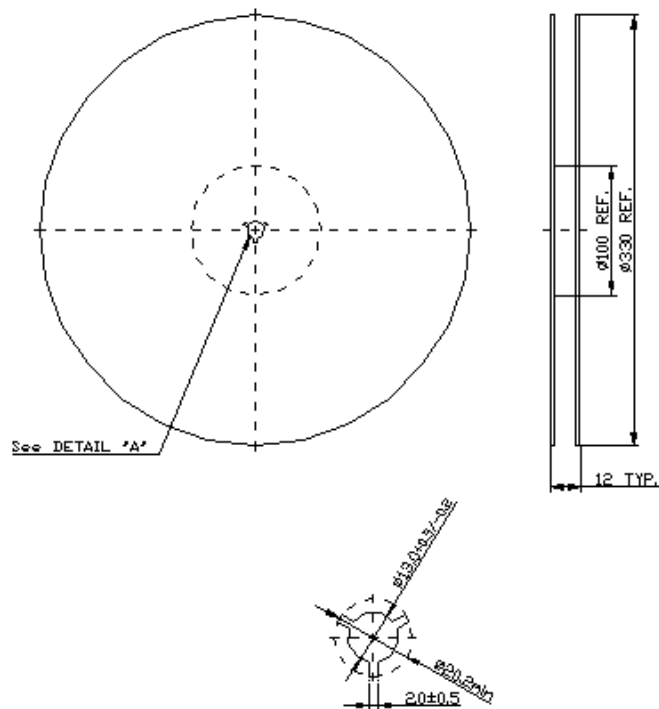
S22



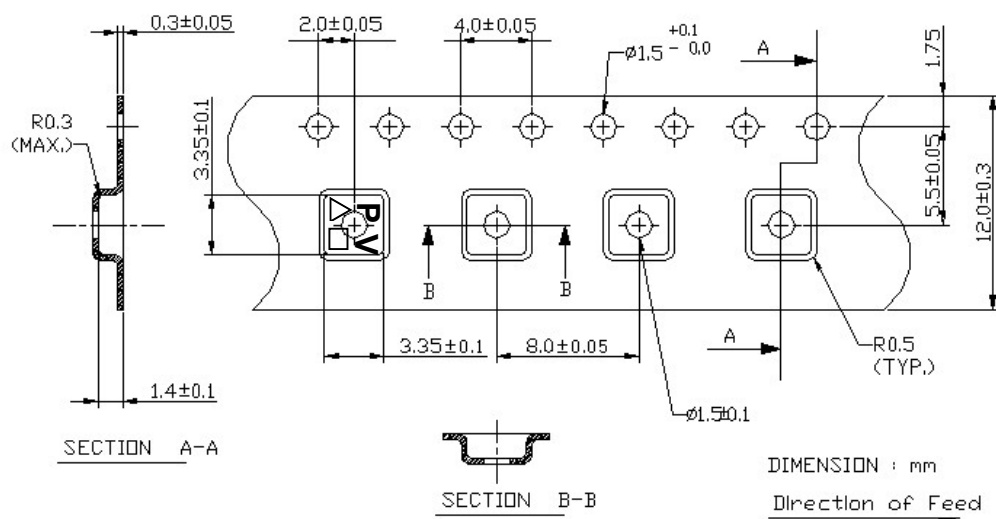
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7''=1000 ; 13''=3000)



2.TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

