



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet


Product Description: Dual SAW Filter 360 / 380 MHz SMD 5X5 mm

TST Part No.: TE0113A

Customer Part No.: _____

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

Checked by: _____ Bob Chau 

Approved by: _____ Francis Chen 

Date: _____ 12, 1, 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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Dual SAW Filter 360 / 380 MHz

MODEL NO.:TE0113A

REV. NO.:1

A. MAXIMUM RATING of FILTER 1:

1. Input Power Level: 12 dBm
2. DC Voltage : 3V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS of FILTER 1:

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	360	-	-
Insertion Loss (350~370 MHz) IL	dB	-	2.5	3.5	-
Amplitude Ripple (350~370 MHz)	dB	-	0.7	2.5	-
Return Loss (350~370 MHz)	dB	9	12	-	-
Attenuation (Reference level from 0 dB)					
0.1 ~ 124 MHz	dB	30	34	-	-
175 ~ 259 MHz	dB	22	25	-	-
280 ~ 309 MHz	dB	17	20	-	-
315 ~ 333 MHz	dB	15	17	-	-
385 ~ 407 MHz	dB	15	24	-	-
408 ~ 444 MHz	dB	20	22	-	-
455 ~ 518 MHz	dB	20	22	-	-
583 ~ 617 MHz	dB	15	19	-	-
617 ~ 1000 MHz	dB	6	10	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-80	-	-

C. MAXIMUM RATING of FILTER 2:

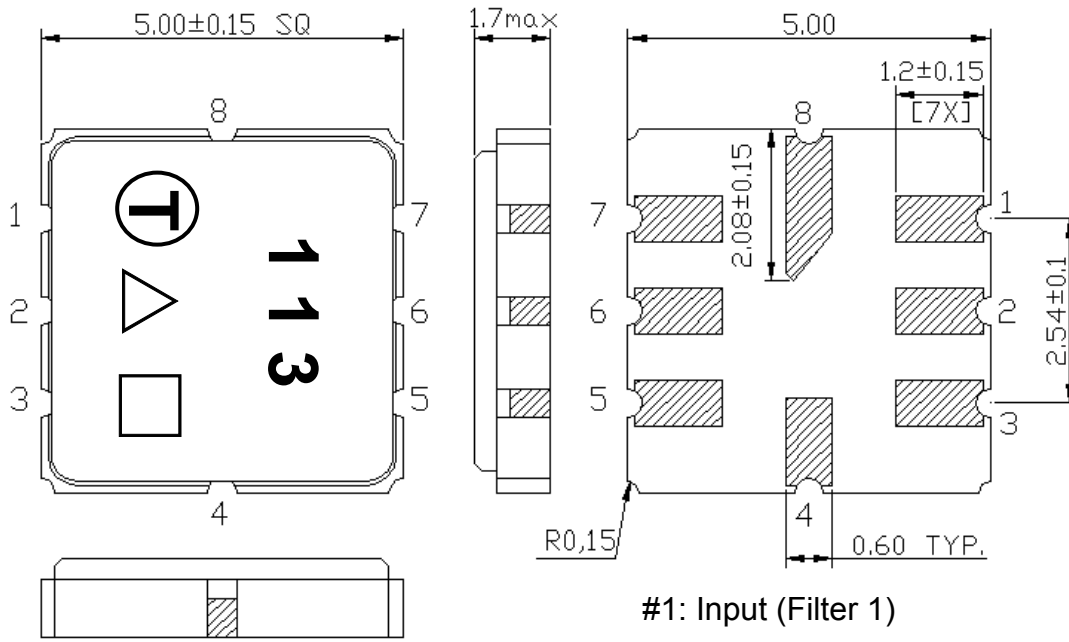
3. Input Power Level: 12 dBm
4. DC Voltage : 3V
3. Operating Temperature: -30°C to +85°C
5. Storage Temperature: -40°C to +85°C

RoHS Compliant
 Lead free
 Lead-free soldering

D. ELECTRICAL CHARACTERISTICS of FILTER 2:

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	380	-	-
Insertion Loss (370~390 MHz) IL	dB	-	2.7	3.5	-
Amplitude Ripple (370~390 MHz)	dB	-	0.8	2.5	-
Return Loss (370~390 MHz)	dB	9	12	-	-
Attenuation (Reference level from 0 dB)					
0.1 ~ 130 MHz	dB	30	33	-	-
185 ~ 273 MHz	dB	22	25	-	-
296 ~ 325 MHz	dB	17	20	-	-
333 ~ 351 MHz	dB	15	16	-	-
407 ~ 429 MHz	dB	15	25	-	-
431 ~ 468 MHz	dB	20	23	-	-
481 ~ 585 MHz	dB	18	20	-	-
616 ~ 650 MHz	dB	15	19	-	-
650 ~ 1000 MHz	dB	6	10	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-80	-	-

E.OUTLINE DRAWING:



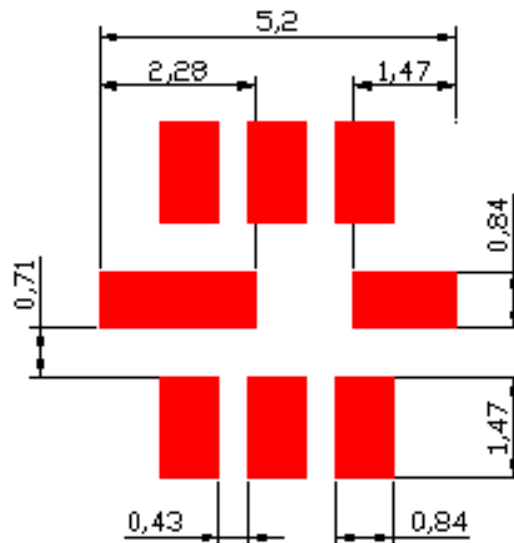
- #1: Input (Filter 1)
 - #3: Input (Filter 2)
 - #5: Output (Filter 2)
 - #7: Output (Filter 1)
 - #2,6 : To be grounded
 - #4,8: Case ground
- Unit: mm

△ : Product / Year Code

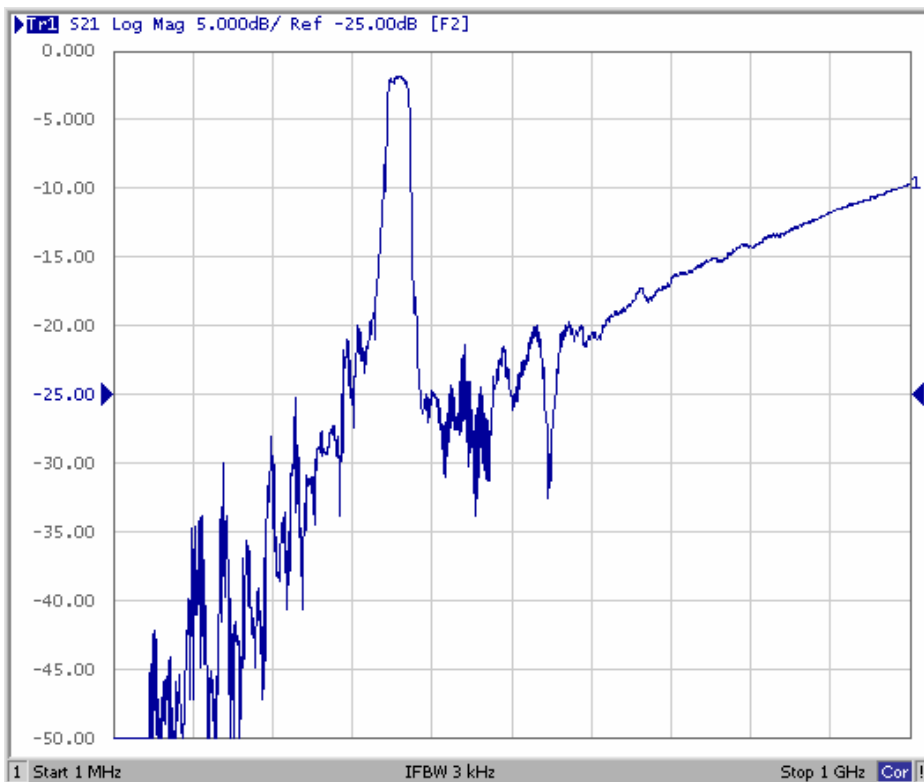
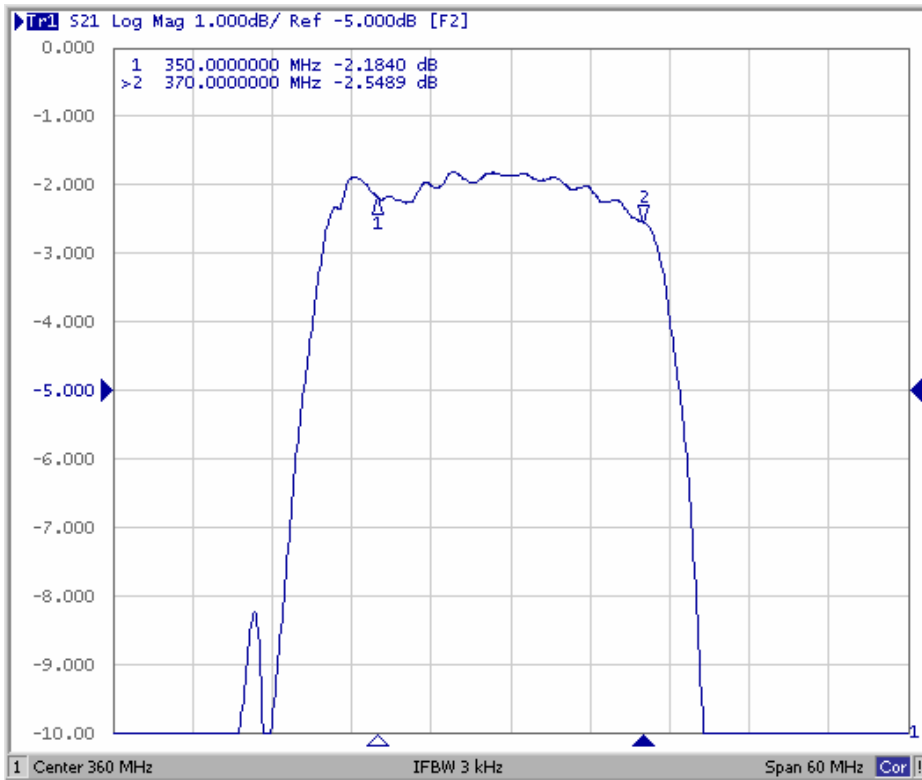
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	E	e	Ⓔ	ⓔ

□ : Date Code (W01->A,W02->B,...W27->a,...,W52->z)

F. PCB Footprint:

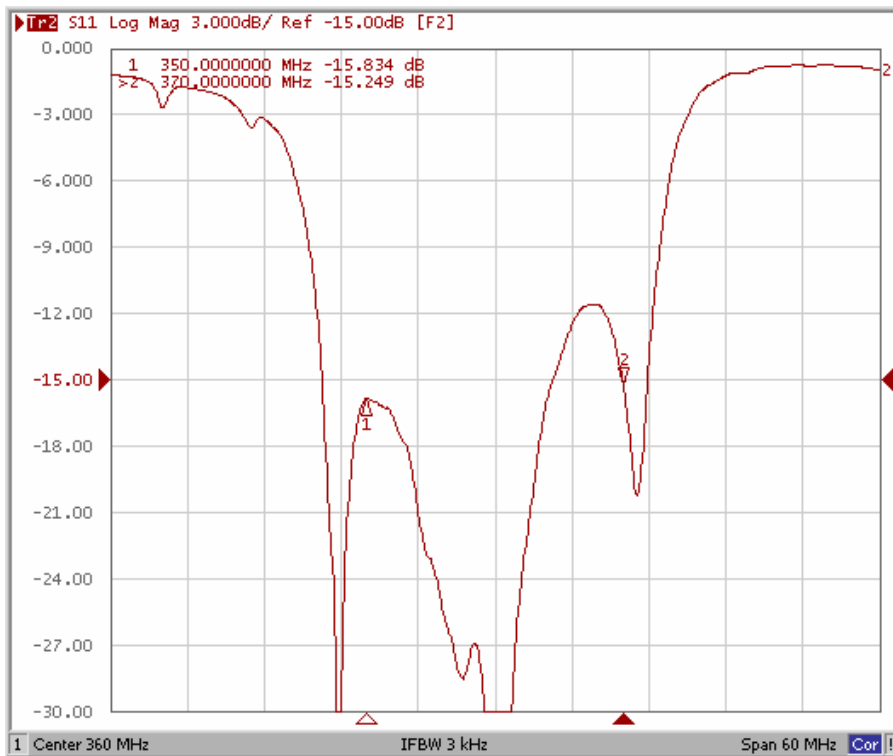


G. Frequency Characteristics : (Filter 1)

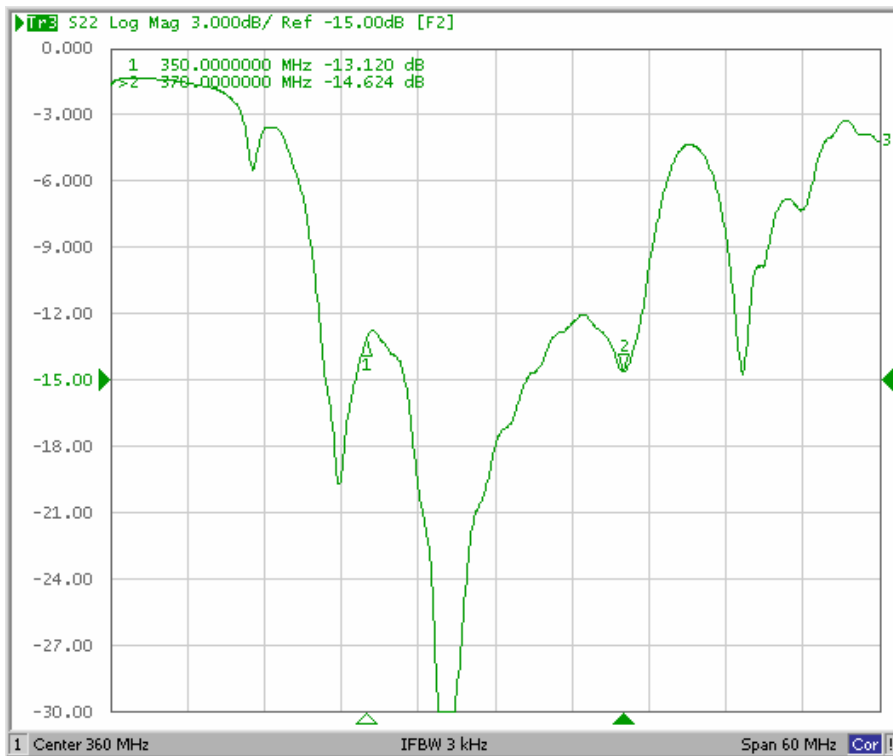


Reflection Functions : (Filter 1)

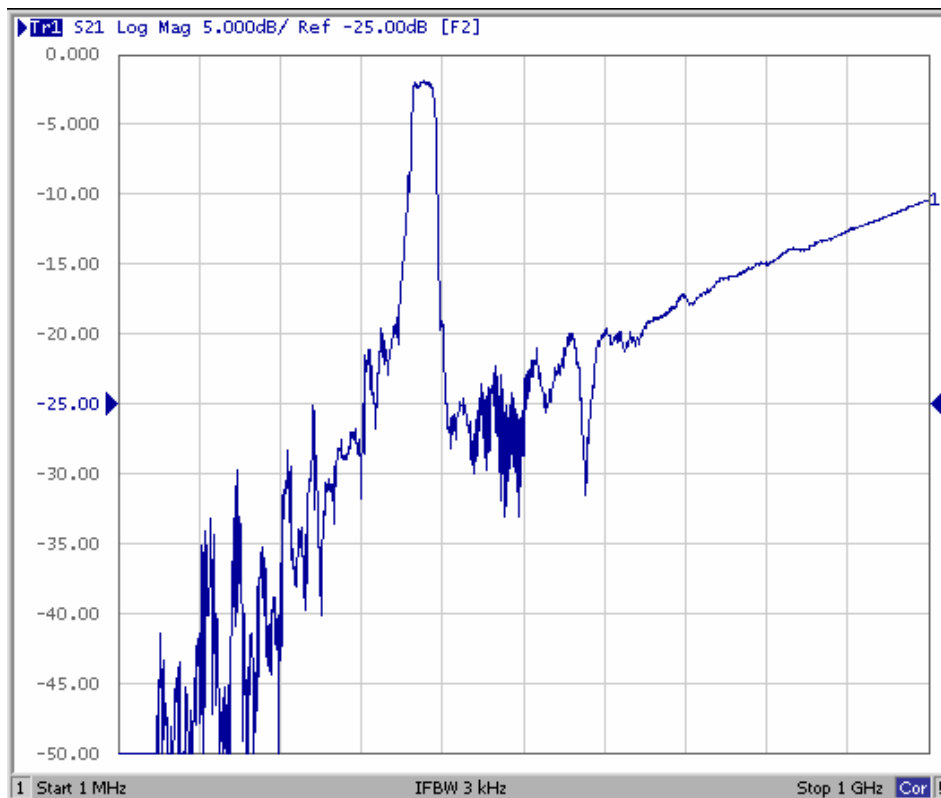
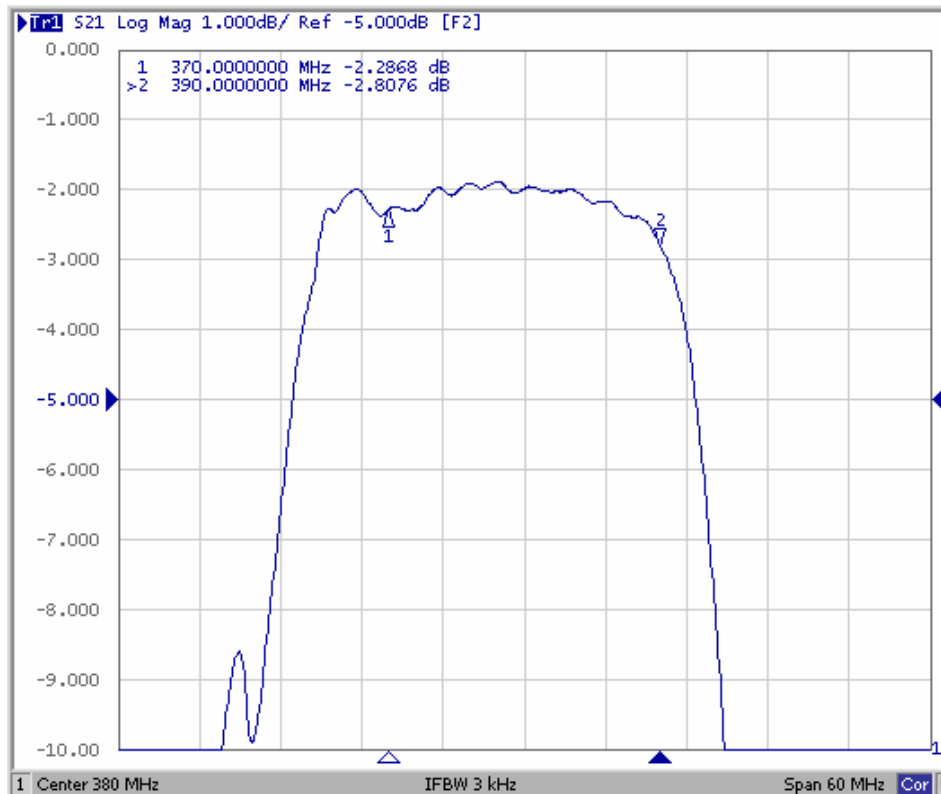
S11



S22

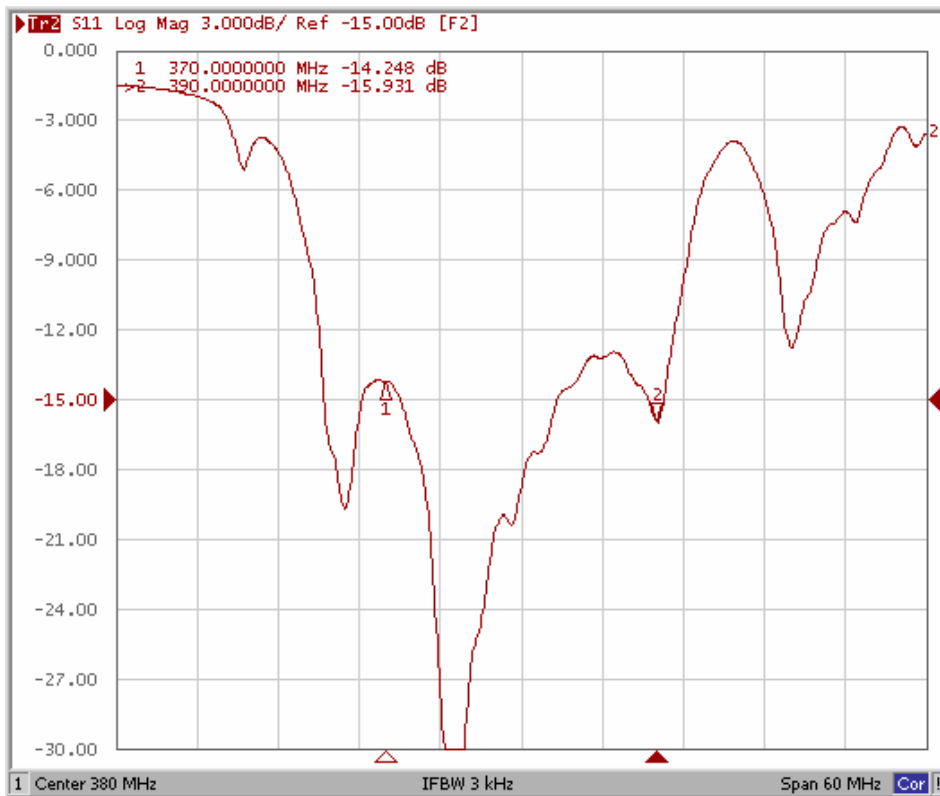


H. Frequency Characteristics : (Filter 2)

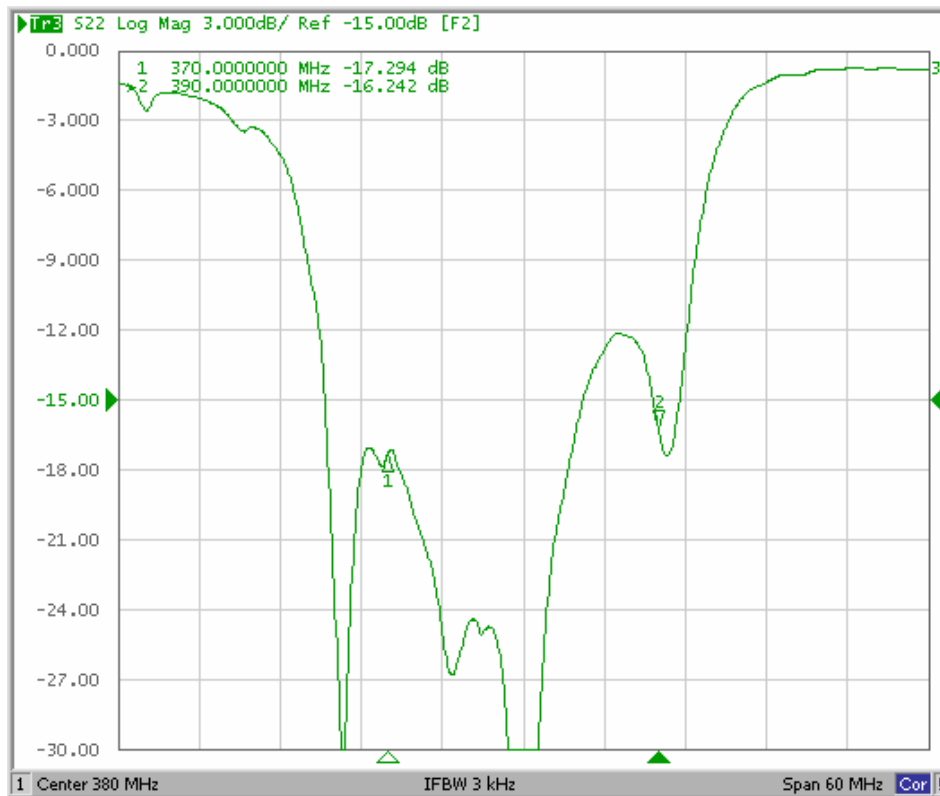


Reflection Functions : (Filter 2)

S11



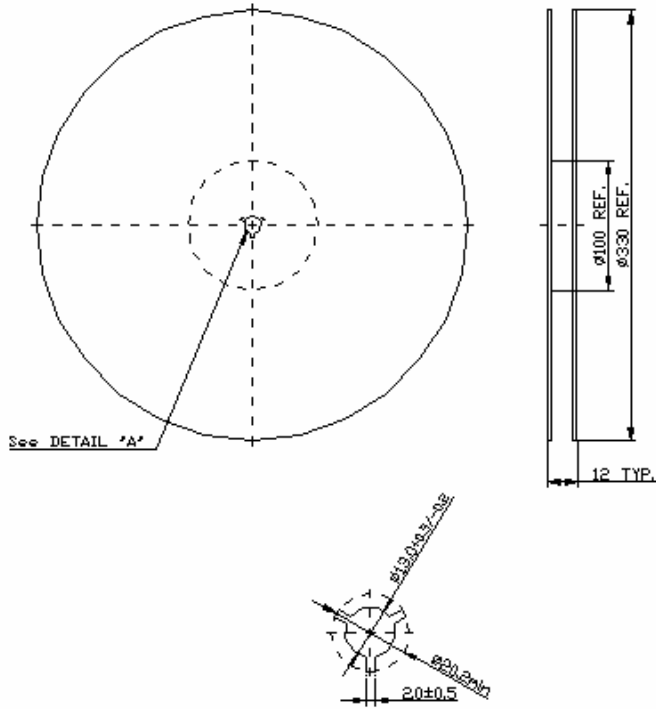
S22



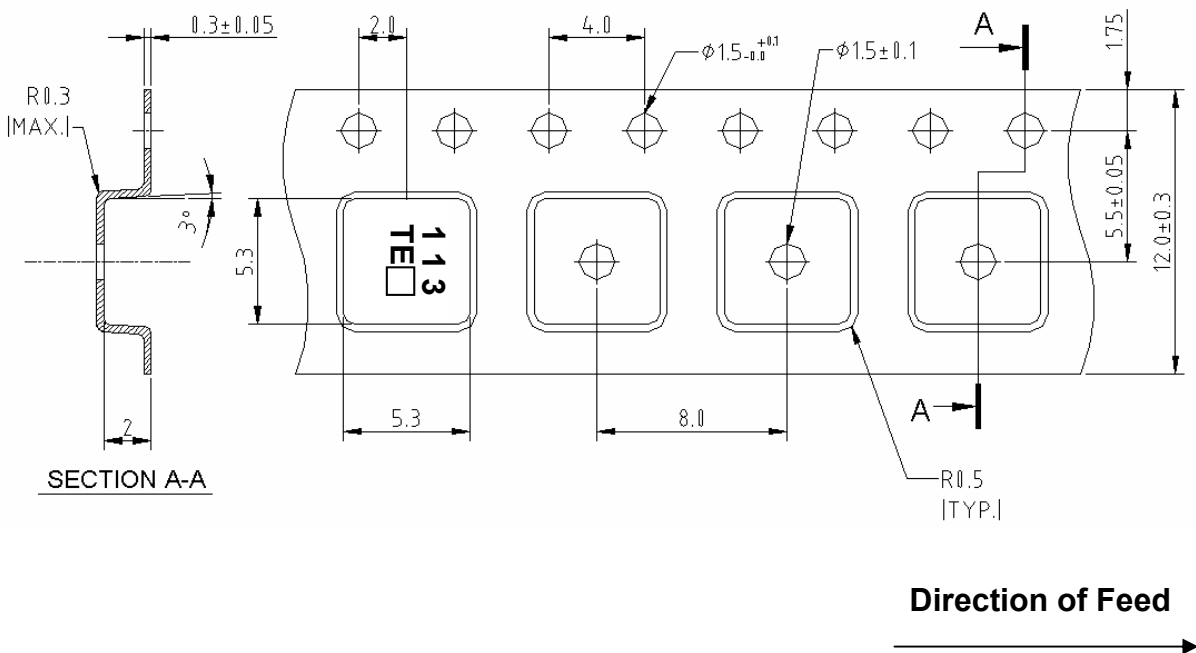
I. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



J. RECOMMENDED REFLOW PROFILE :

