



TAI-SAW TECHNOLOGY CO., LTD.

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

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E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Name: SAW DPX 1950/2140MHz 60MHz BW Band 1 SMD 2.0×1.6 mm

TST Parts No.: TF0098A

Customer Part No.: _____

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

Checked by: _____ Hayley Chou *Hayley Chou*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2014/12/23

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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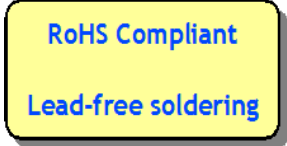
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SAW DPX 1950/2140MHz 60MHz BW Single type SMD 2.0×1.6 mm
MODEL NO.: TF0098A REV. No.: 1.0

A. MAXIMUM RATING:

1. Maximum Input Power: 0.8 W
2. DC voltage: 5 V
3. Operating Temperature: -20°C to +85°C
4. Storage Temperature: -40°C to +125°C



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating impedance(Tx Port): 50//4.7nH Ω (Single-ended)

Terminating impedance(Rx Port): 50//4.7nH Ω (Single-ended)

Terminating impedance(Ant Port): 50//2.7nH Ω (Single-ended)

Tx to ANT

Parameters Description		Unit	Minimum	Typical	Maximum
Insertion Loss	1920.0~1980.0 MHz	dB	-	1.5	2.3
Amplitude Ripple	1920.0~1980.0 MHz	dB _{p-p}	-	0.4	1.0
VSWR	ANT	-	-	1.5	2.0
	Tx	-	-	1.8	2.1
Attenuation:					
1574.0~1577.0 MHz		dB	30	37	-
2110.0~2170.0 MHz		dB	38	45	-
2400.0~2500.0 MHz		dB	35	40	-
3840.0~3960.0 MHz		dB	15	20	-

ANT to Rx

Parameters Description		Unit	Minimum	Typical	Maximum
Insertion Loss	2110.0~2170.0 MHz	dB	-	1.6	2.2
Amplitude Ripple	2110.0~2170.0 MHz	dB _{p-p}	-	0.5	1.0
VSWR	ANT	2110.0~2170.0 MHz	-	1.5	2.0
	Rx		-	1.5	2.0
Attenuation:					
1920.0~1980.0 MHz		dB	45	48	-
1980.0~2025.0 MHz		dB	40	43	-
2400.0~2500.0 MHz		dB	48	53	-

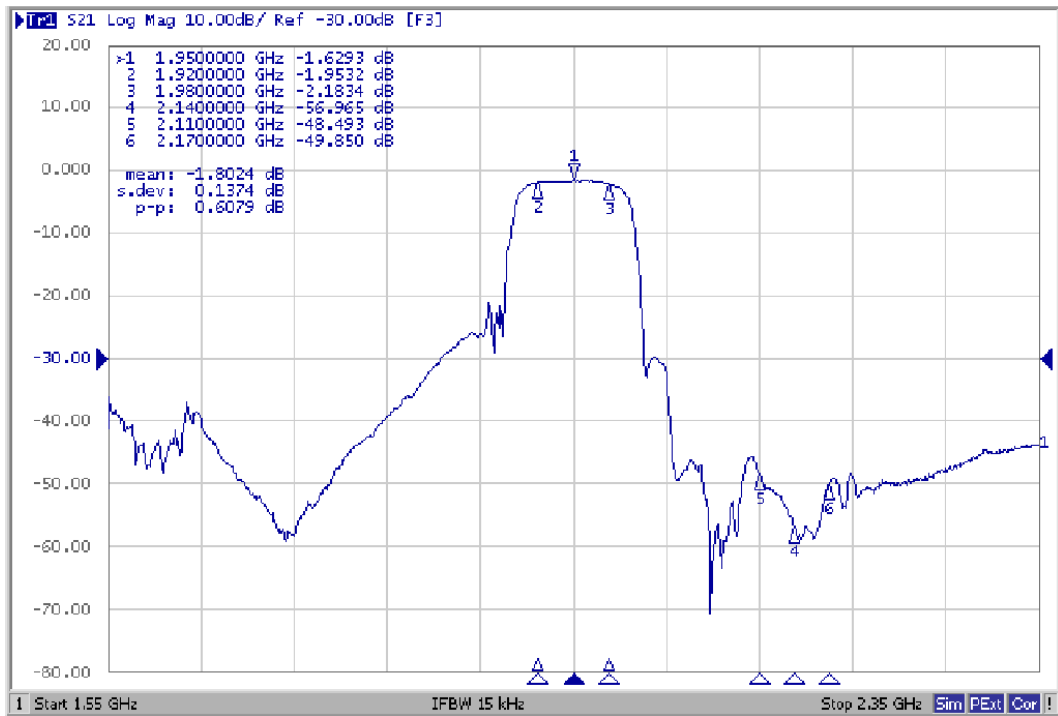
Tx to Rx

Isolation in Tx Band	1920.0~1980.0 MHz	dB	48	52	-
Isolation	2005.0~2085.0 MHz	dB	21	26	-
Isolation in Rx Band	2110.0~2170.0 MHz	dB	46	50	-

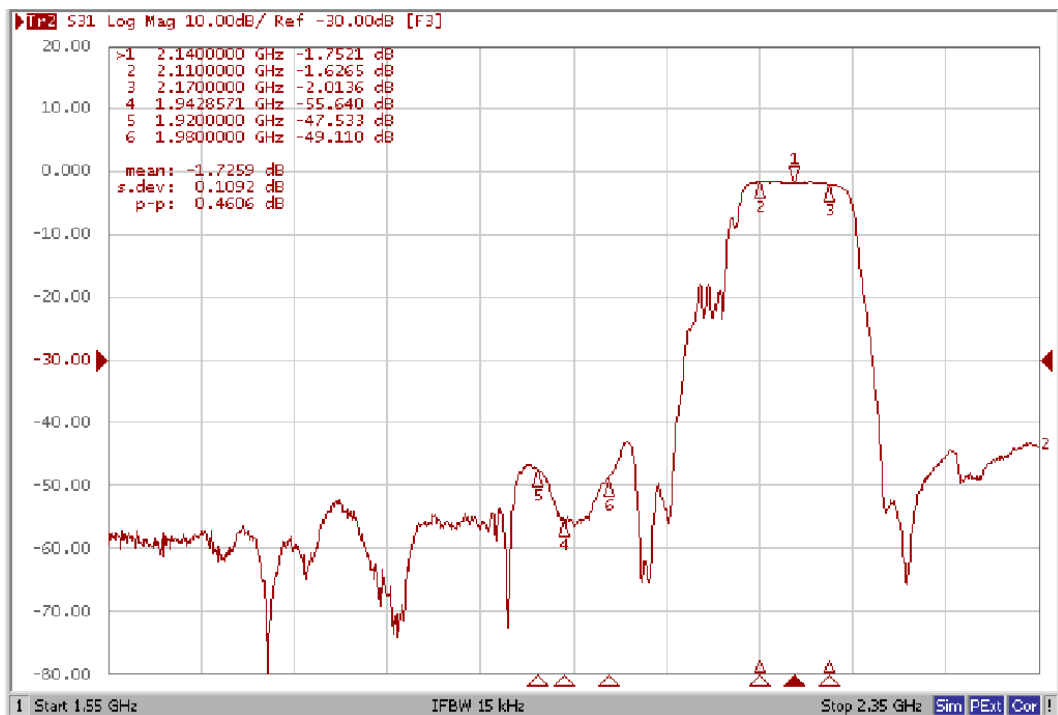
Notes: (1) With Matching Network

C. Frequency Characteristics:

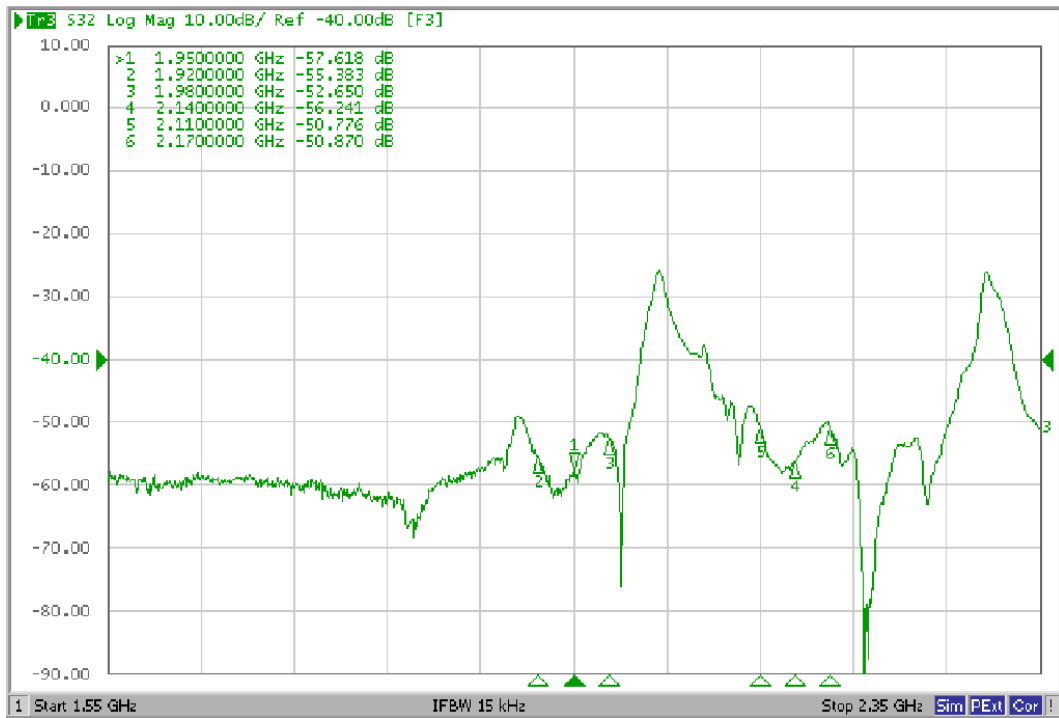
Tx to Ant



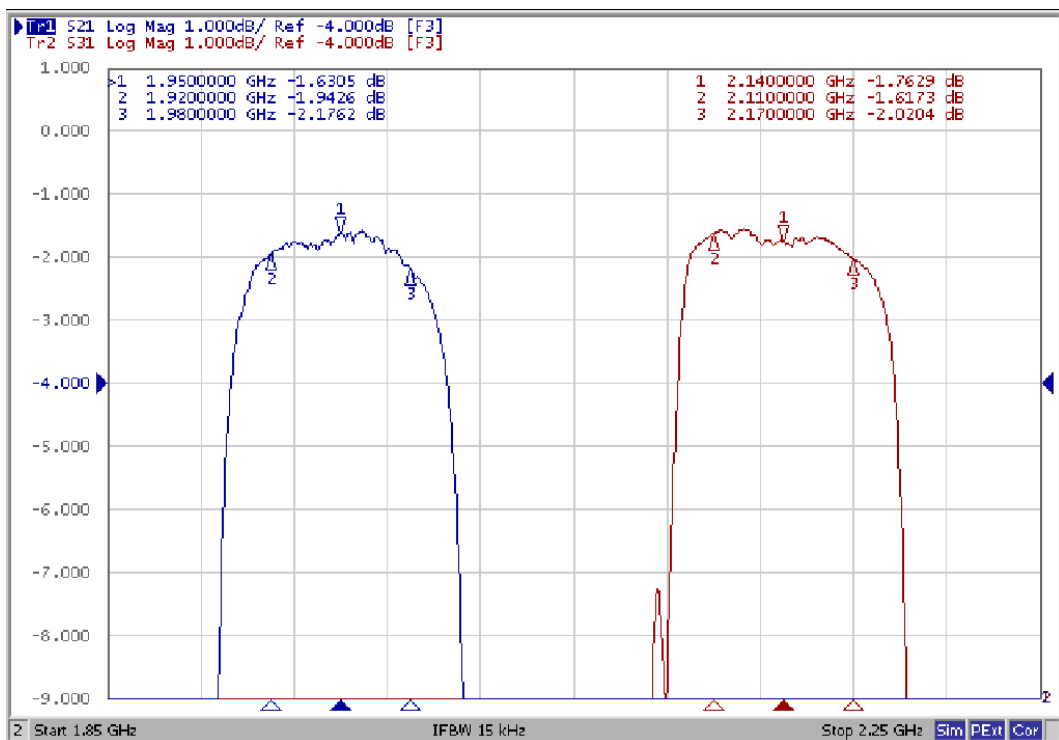
Ant to Rx



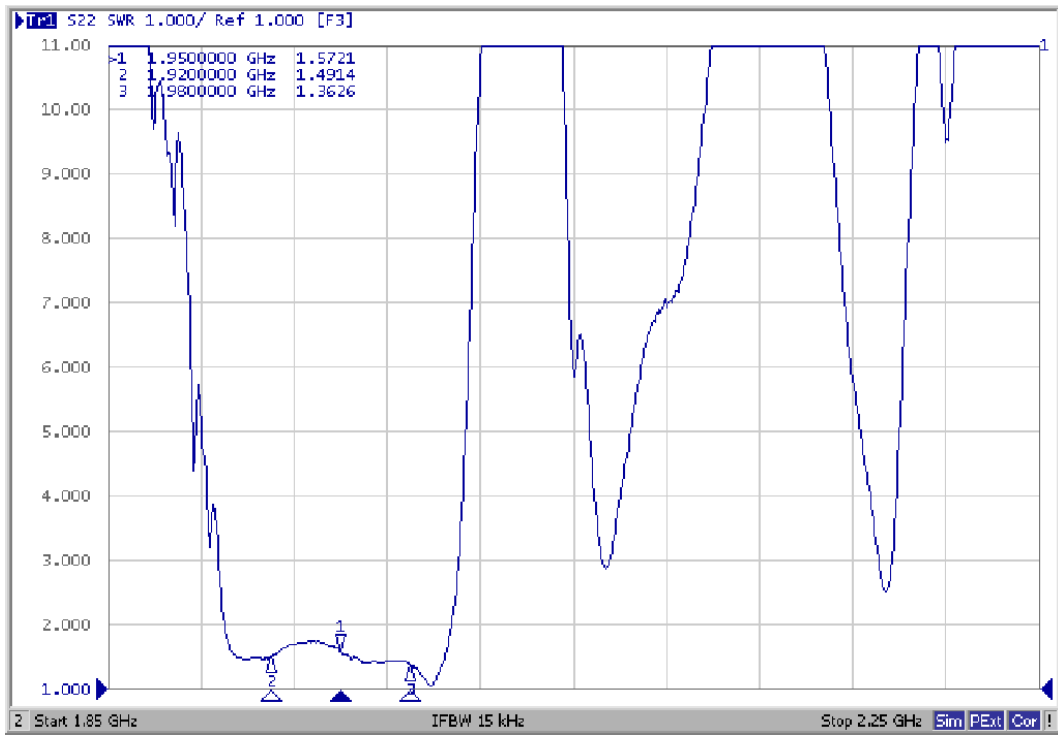
Isolation



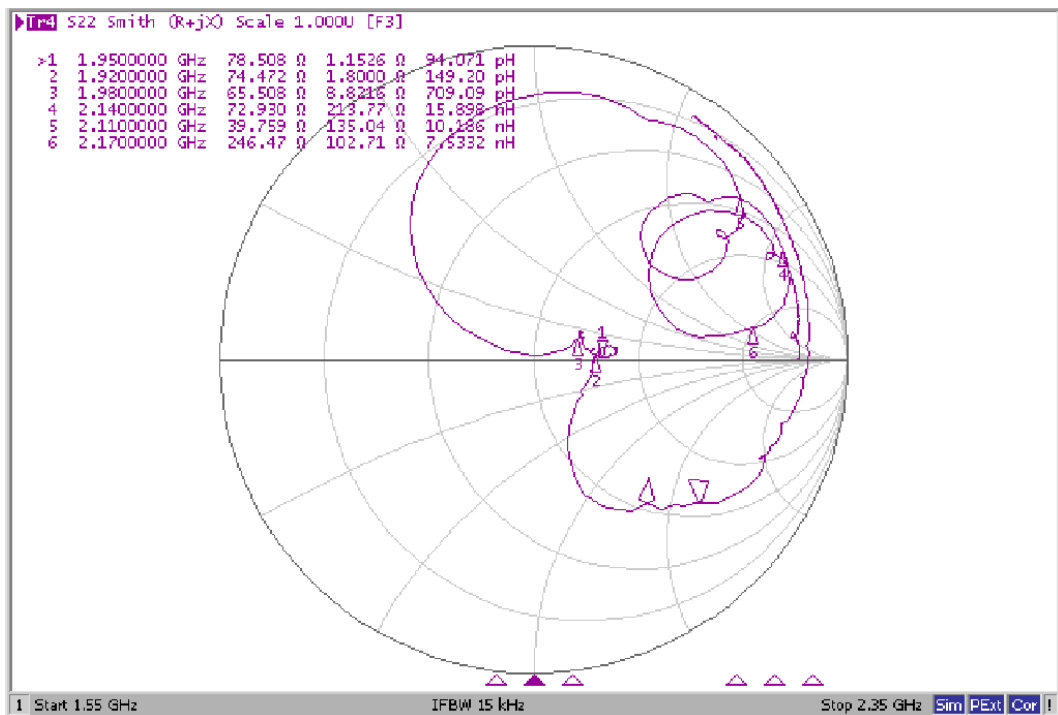
Ripple



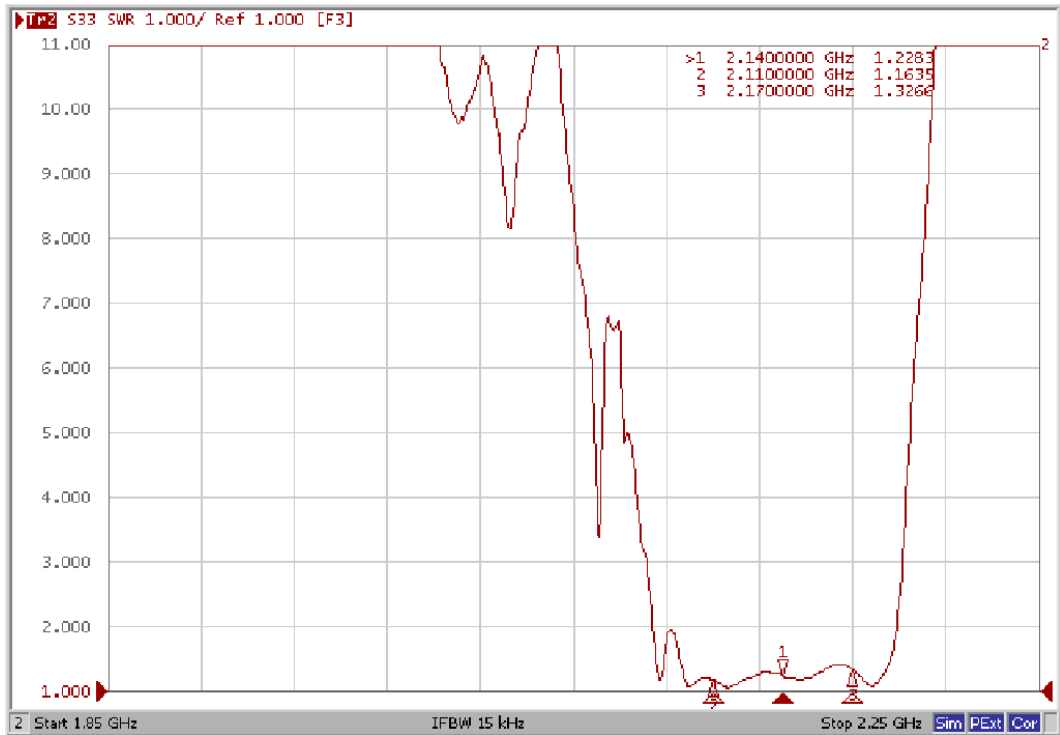
VSWR (Tx Port)



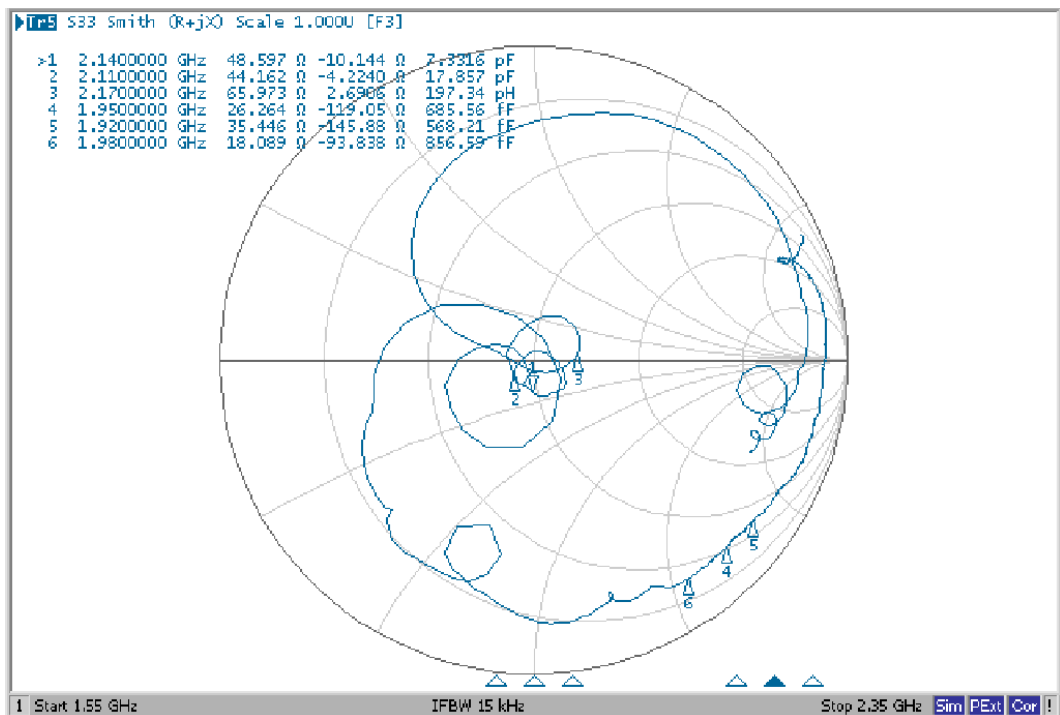
Smith Chart (Tx Port)



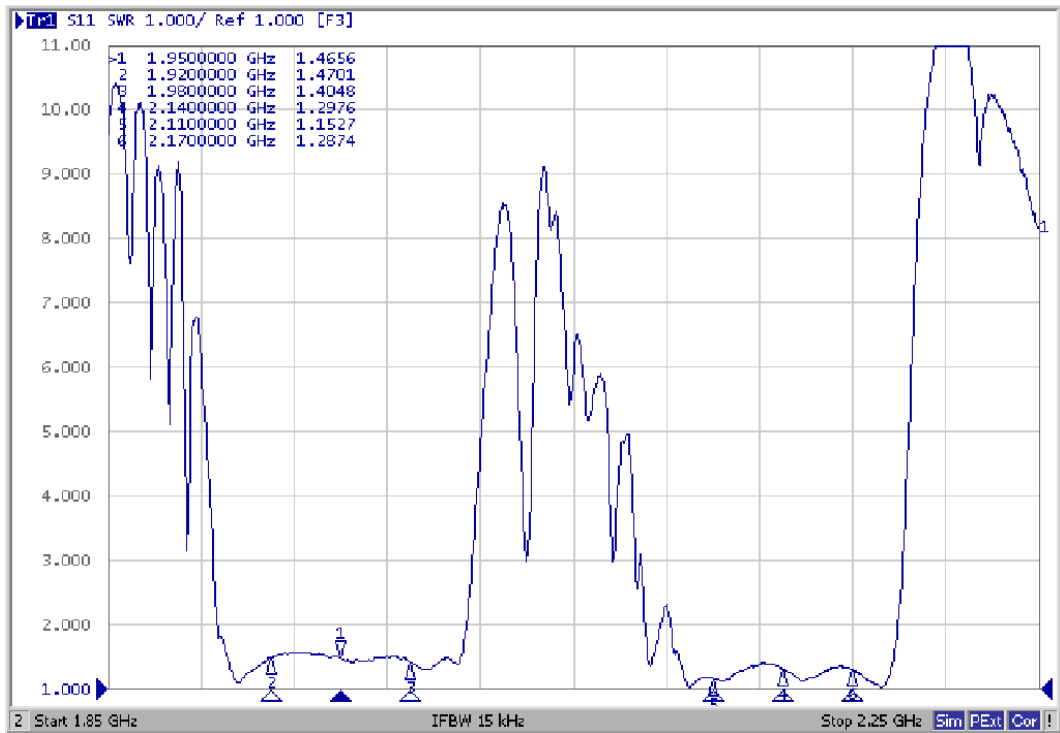
VSWR (Rx Port)



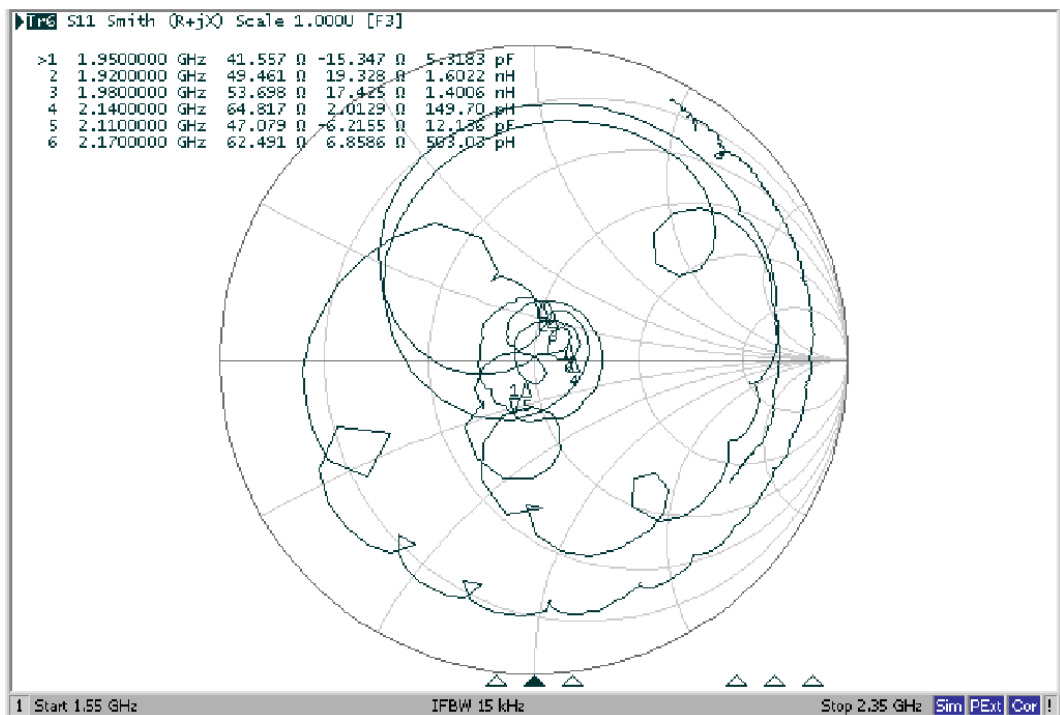
Smith Chart (Rx Port)



SWR (ANT Port)

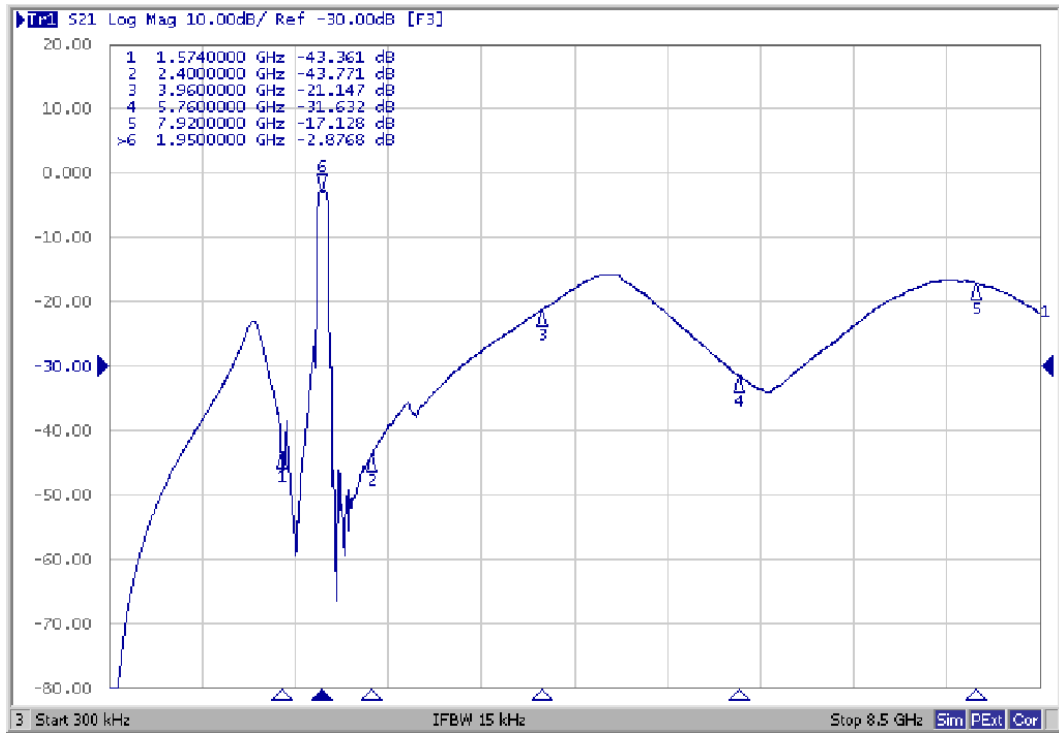


Smith Chart (ANT Port)

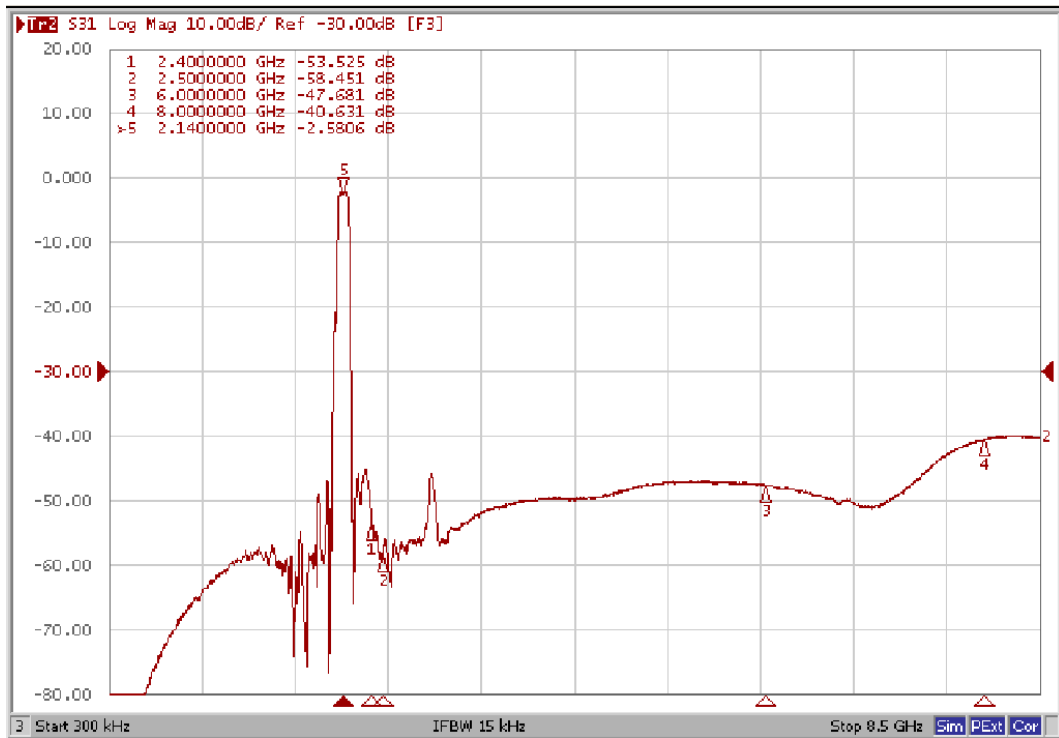


Wide Span

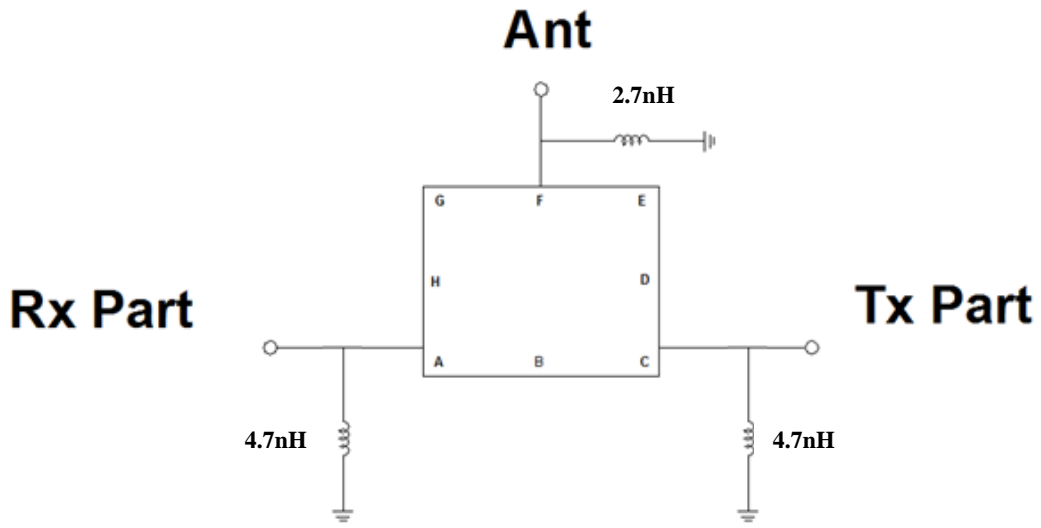
Tx



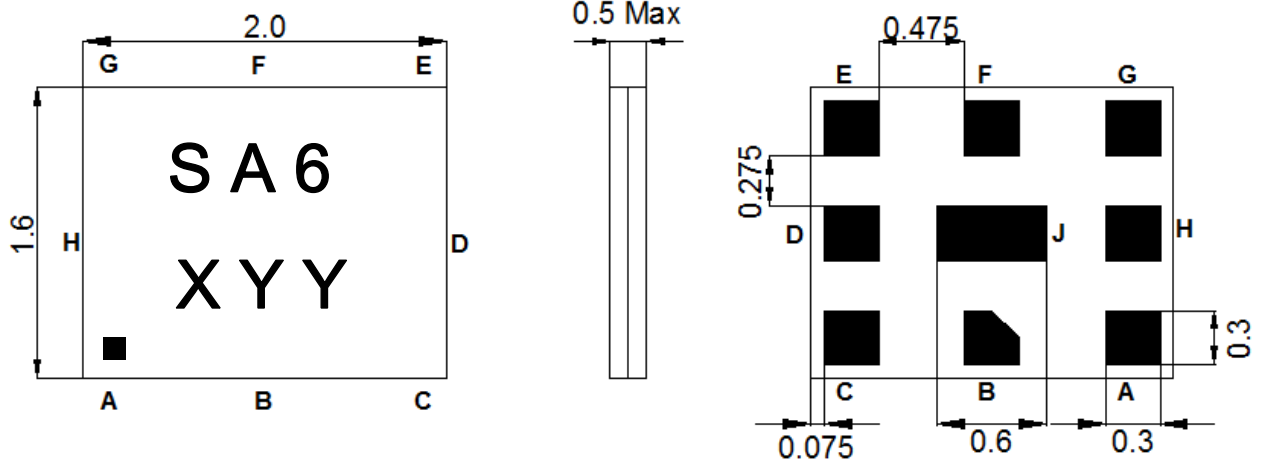
Rx



D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



Marking Descriptions	
S	Series Number 1
A6	Series Number 2
X	Date Code(Year+Month)
YY	Lot No.

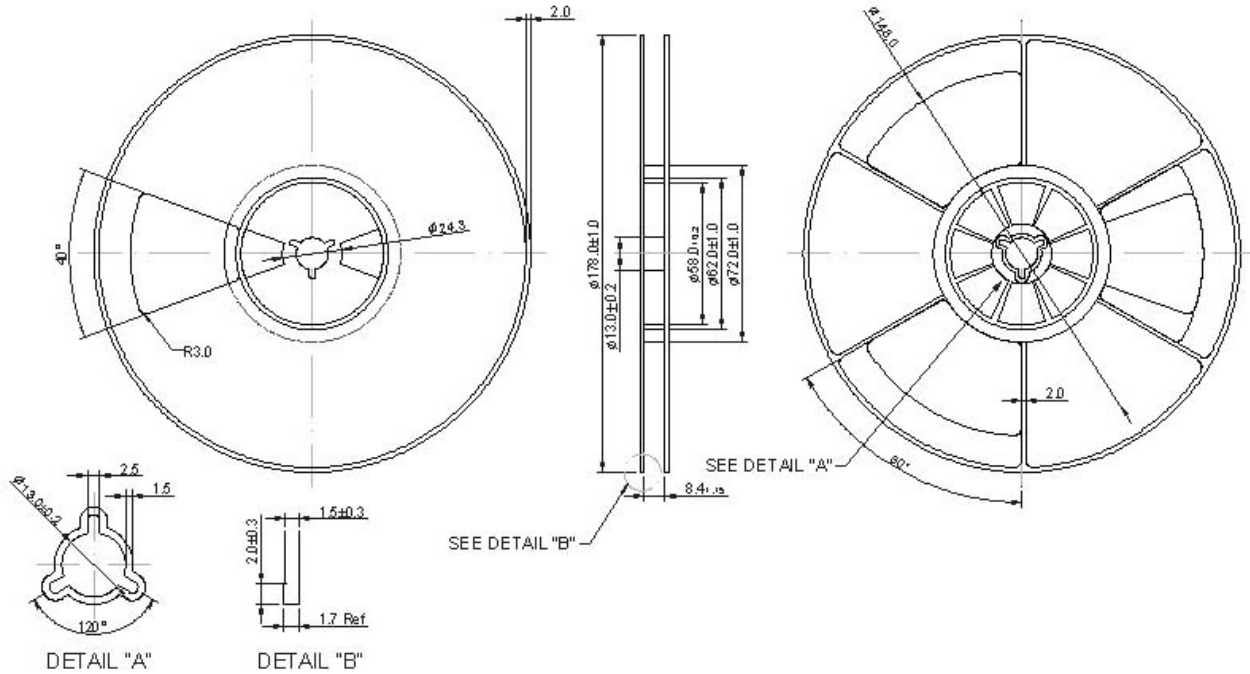
Pin Description	
B,D,E,G,H,J	Ground
F	Ant
C	Tx (1950.0MHz)
A	Rx (2140.0MHz)

X	Date Code [year + month]																																																																	
	<table border="1"> <thead> <tr> <th>Year</th> <th>Jan</th> <th>Feb</th> <th>Mar</th> <th>Apr</th> <th>May</th> <th>Jun</th> <th>Jul</th> <th>Aug</th> <th>Sep</th> <th>Oct</th> <th>Nov</th> <th>Dec</th> </tr> </thead> <tbody> <tr> <td>2013</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> <td>G</td> <td>H</td> <td>J</td> <td>K</td> <td>L</td> <td>M</td> </tr> <tr> <td>2014</td> <td>N</td> <td>P</td> <td>Q</td> <td>R</td> <td>S</td> <td>T</td> <td>U</td> <td>V</td> <td>W</td> <td>X</td> <td>Y</td> <td>Z</td> </tr> <tr> <td>2015</td> <td>a</td> <td>b</td> <td>c</td> <td>d</td> <td>e</td> <td>f</td> <td>g</td> <td>h</td> <td>j</td> <td>k</td> <td>l</td> <td>m</td> </tr> <tr> <td>2016</td> <td>n</td> <td>p</td> <td>q</td> <td>r</td> <td>s</td> <td>t</td> <td>u</td> <td>v</td> <td>w</td> <td>x</td> <td>y</td> <td>z</td> </tr> </tbody> </table>	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2013	A	B	C	D	E	F	G	H	J	K	L	M	2014	N	P	Q	R	S	T	U	V	W	X	Y	Z	2015	a	b	c	d	e	f	g	h	j	k	l	m	2016	n	p	q	r	s	t	u	v	w	x	y	z
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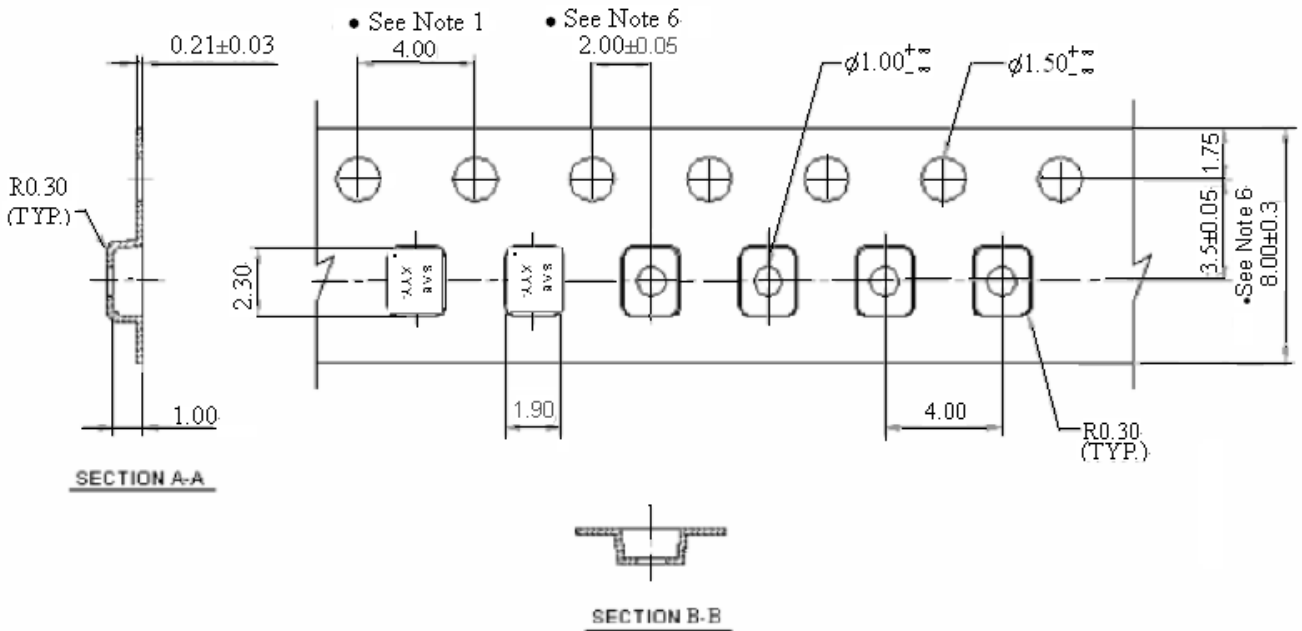
F. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION:



G. RECOMMENDED REFLOW PROFILE:

