



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 DPX 897.5/942.5MHz 35MHz BW Band 8 SMD 2.0X1.6 mm

TST Part No.: TF0093A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Hayley Chou *Hayley Chou*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2015/02/24

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 DPX 897.5/942.5MHz 35MHz BW Single type SMD 2.0X1.6 mm

MODEL NO.: TF0093A

REV. No.: 1.0

A. MAXIMUM RATING:

1. Maximum DC Voltage: 0V
2. Operating Temperature: -20°C to +85°C
3. Storage Temperature: -40°C to +85°C
4. Package type: C45

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

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

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

Terminating impedance(Ant Port): 50//7.5nH Ω (Single-ended)

Tx to ANT

Parameters Description		Unit	Minimum	Typical	Maximum	
Insertion Loss		880.24 ~ 914.76 MHz	dB	-	2.1	3.2
Amplitude Ripple		882.4 ~ 912.6 MHz	dB	-	1.9	2.4
VSWR	ANT	880.0 ~ 915.0 MHz	-	-	1.1	2.8
	Tx		-	-	1.7	2.1
Input Power		880.0 ~ 915.0 MHz	dBm	+29dBm,Ta=+50℃ 10kh, WCDMA modulation		
Attenuation:						
880.0 ~ 915.0 MHz		dB	-	2.0	2.3	
10.0 ~ 728.0 MHz		dB	35	38	-	
728.0 ~ 798.0 MHz		dB	30	38	-	
927.4 ~ 957.6 MHz		dB	44	54	-	
1565.0 ~ 1607.0 MHz		dB	45	47	-	
1710.0 ~ 2170.0 MHz		dB	45	50	-	
2400.0 ~ 2745.0 MHz		dB	40	46	-	
5130.0 ~ 5825.0 MHz		dB	12	20	-	
880.24 ~ 914.76 MHz		dB	-	2.1	3.2	

ANT to Rx

Parameters Description		Unit	Minimum	Typical	Maximum
Insertion Loss	925.0 ~ 960.0 MHz	dB	-	2.1	2.9
	927.4 ~ 957.6 MHz		-	2.0	2.4
Amplitude Ripple		dB _{p-p}	-	1.0	2.2
VSWR	ANT 925.0 ~ 960.0 MHz	-	1.6	2.3	2.0
	Rx 925.0 ~ 960.0 MHz	-	1.9	2.3	2.0
Attenuation:					
699.0 ~ 798.0 MHz		dB	45	60	-
882.4 ~ 912.6 MHz		dB	50	55	-
1045.0 ~ 2880.0 MHz		dB	40	49	-

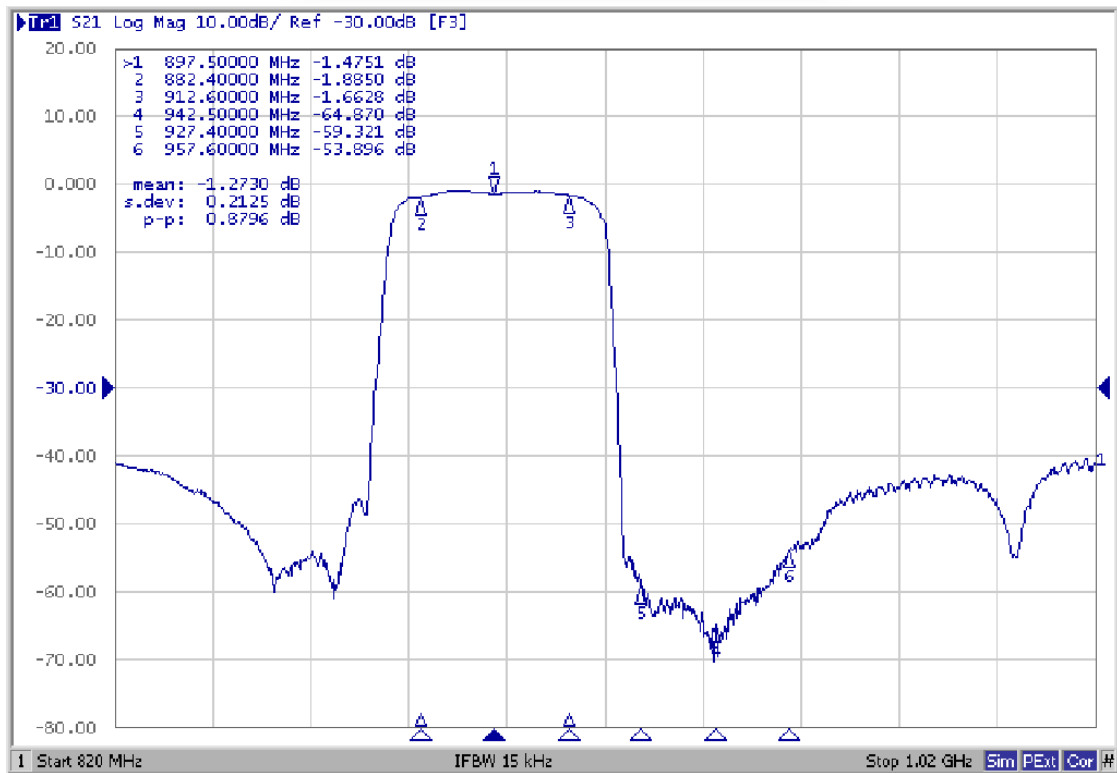
Tx to Rx

Isolation	882.4 ~ 912.6 MHz	dB	55	57	-
	915.0 ~ 925.0 MHz	dB	16	20	
	927.4 ~ 957.6 MHz	dB	51	55	-

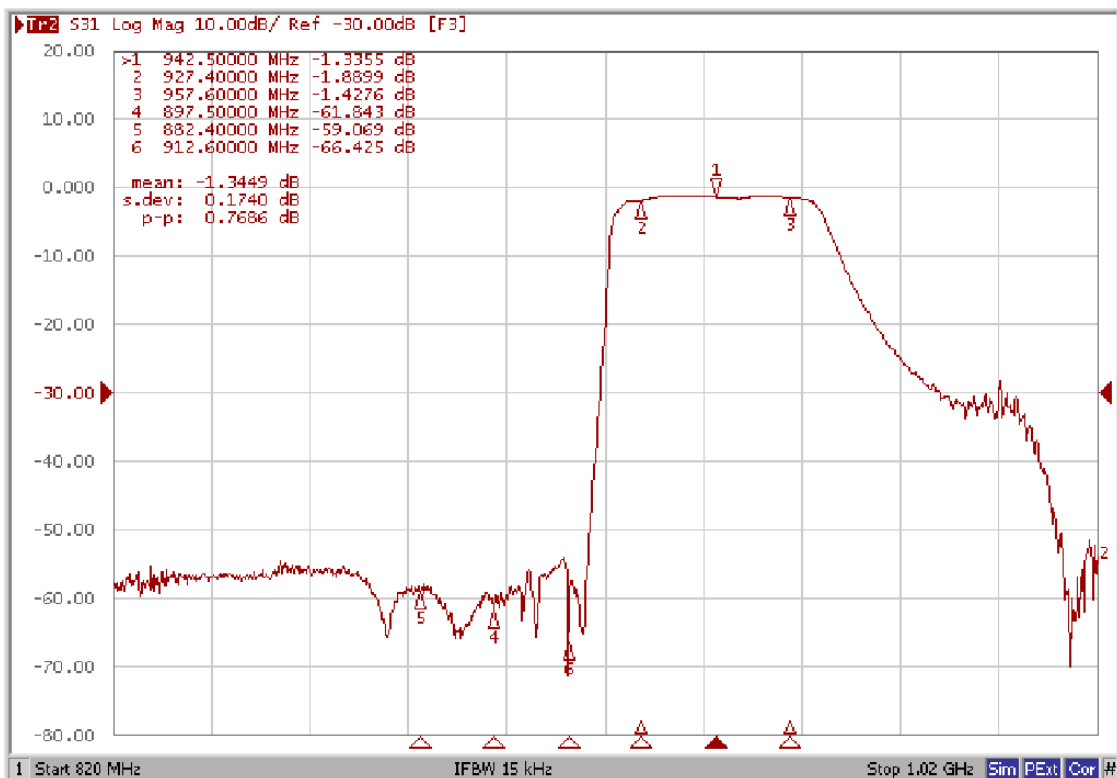
Notes: (1) With Matching Network .

C. Frequency Characteristics:

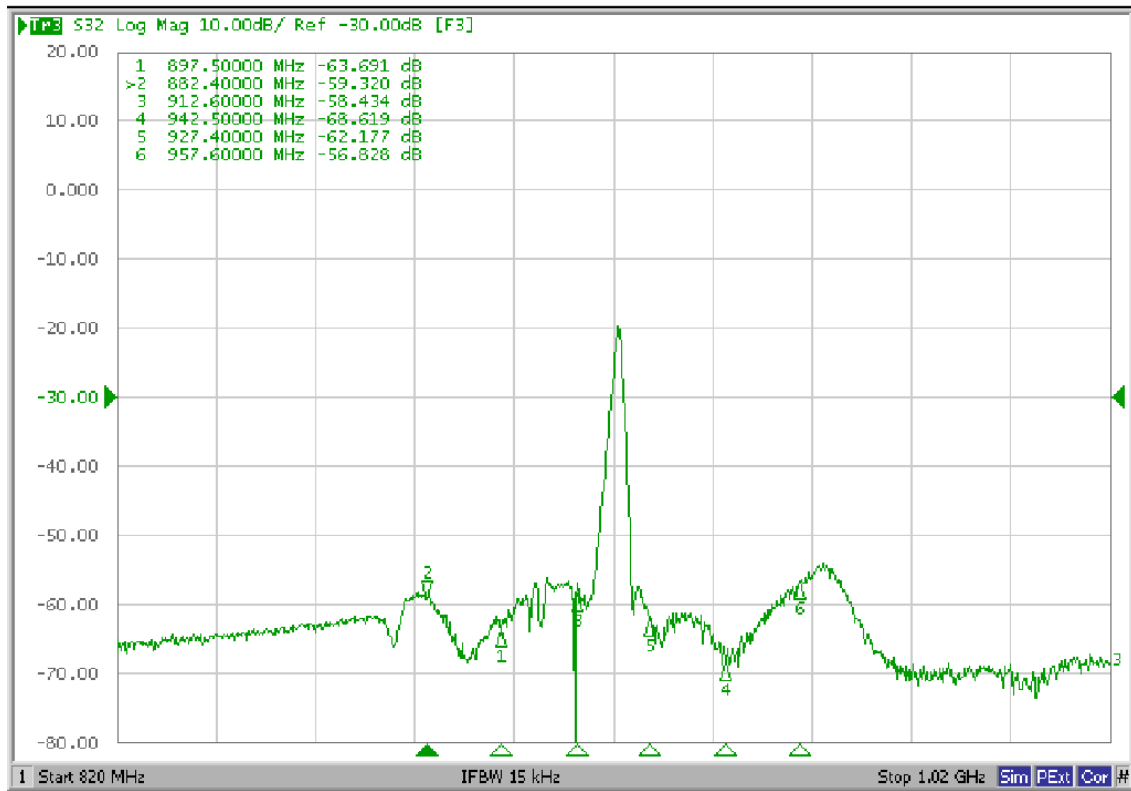
Tx to Ant



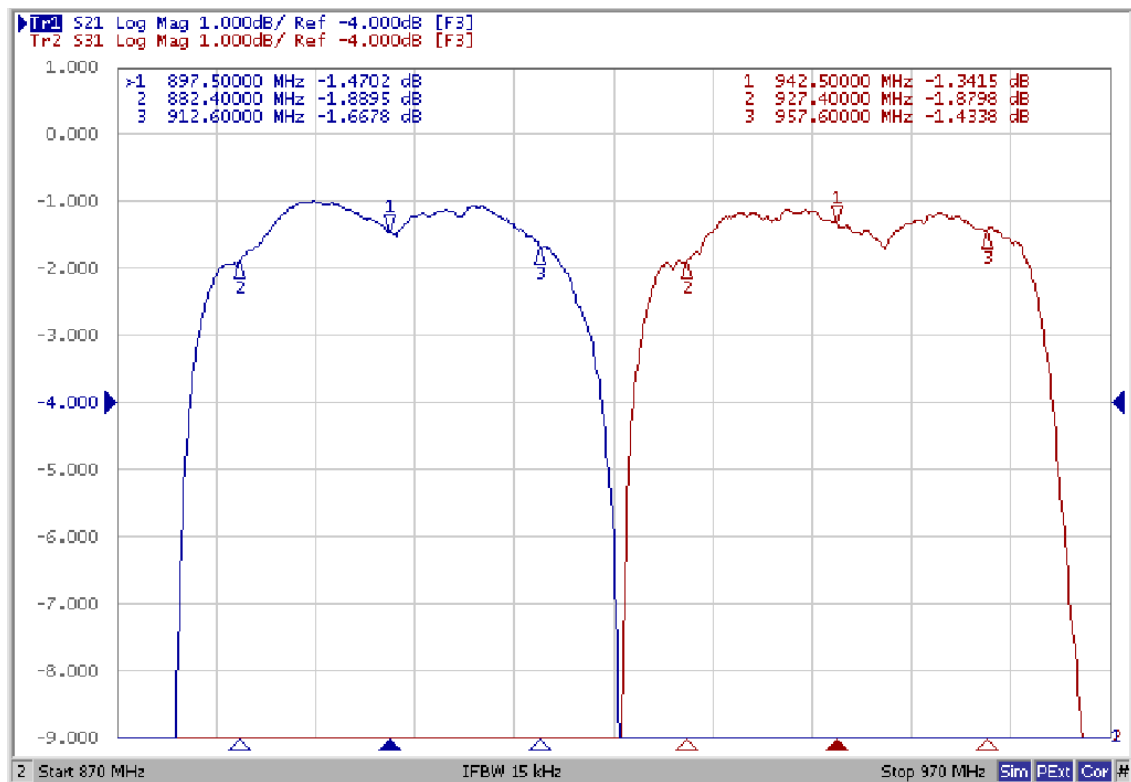
Ant to Rx



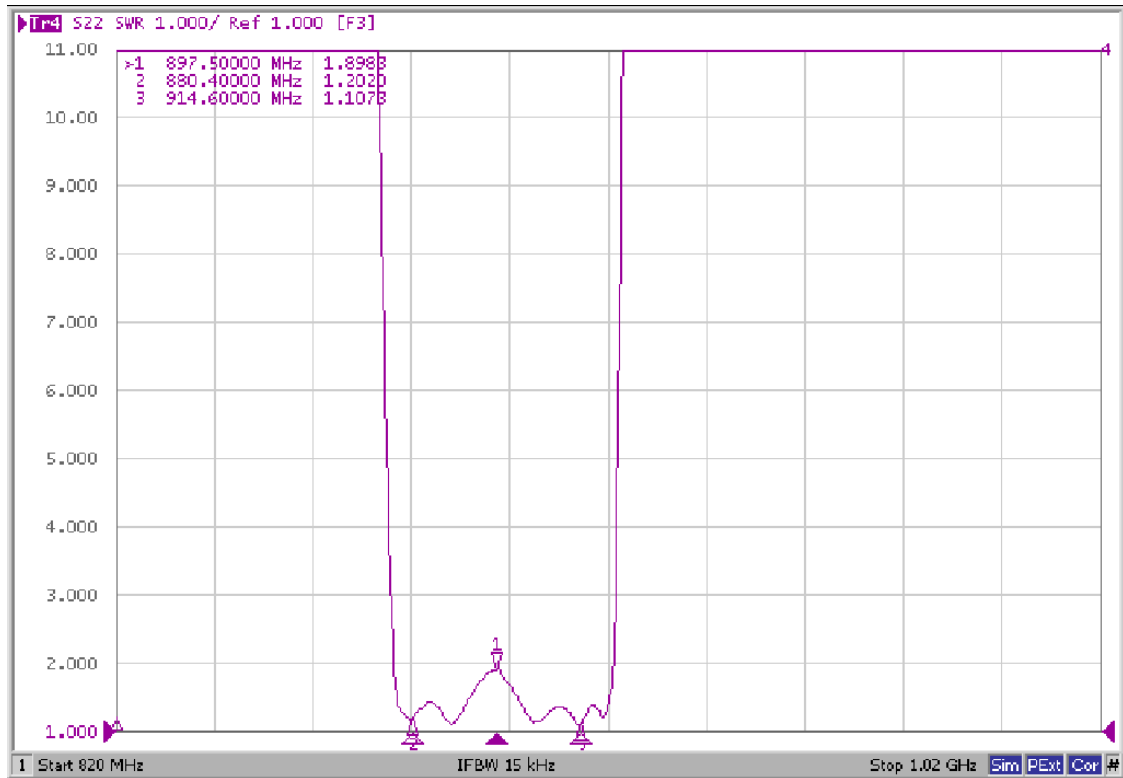
Isolation



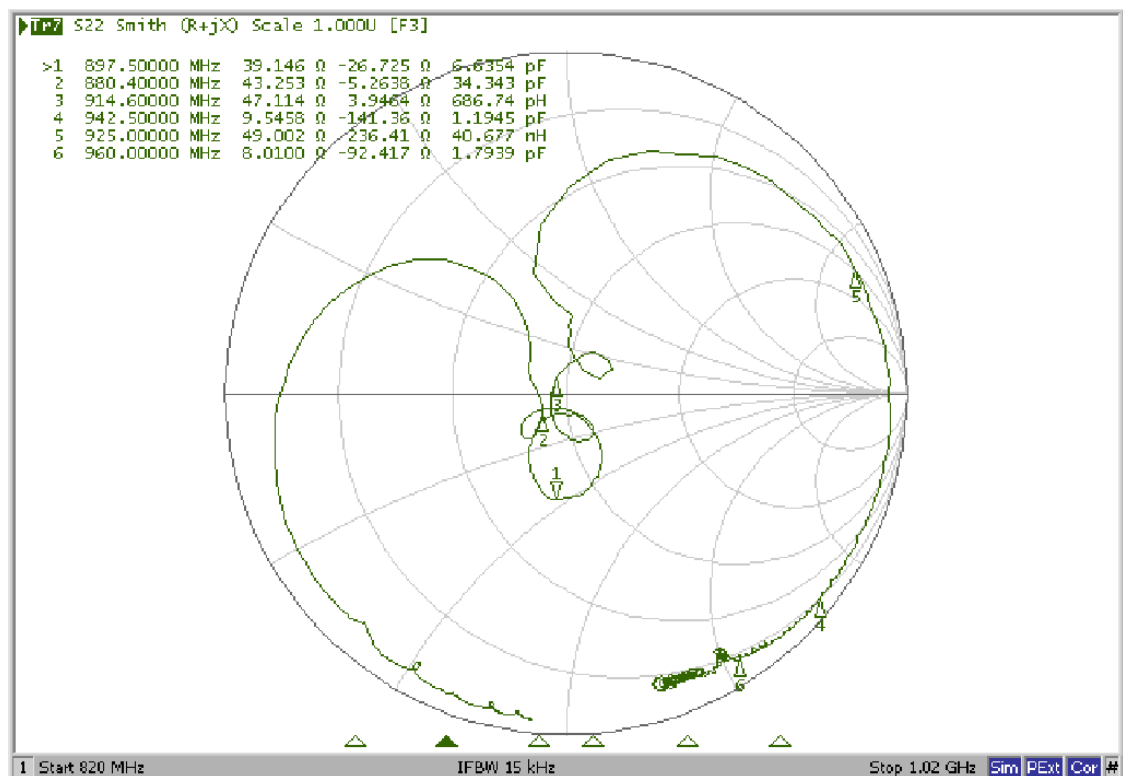
Ripple



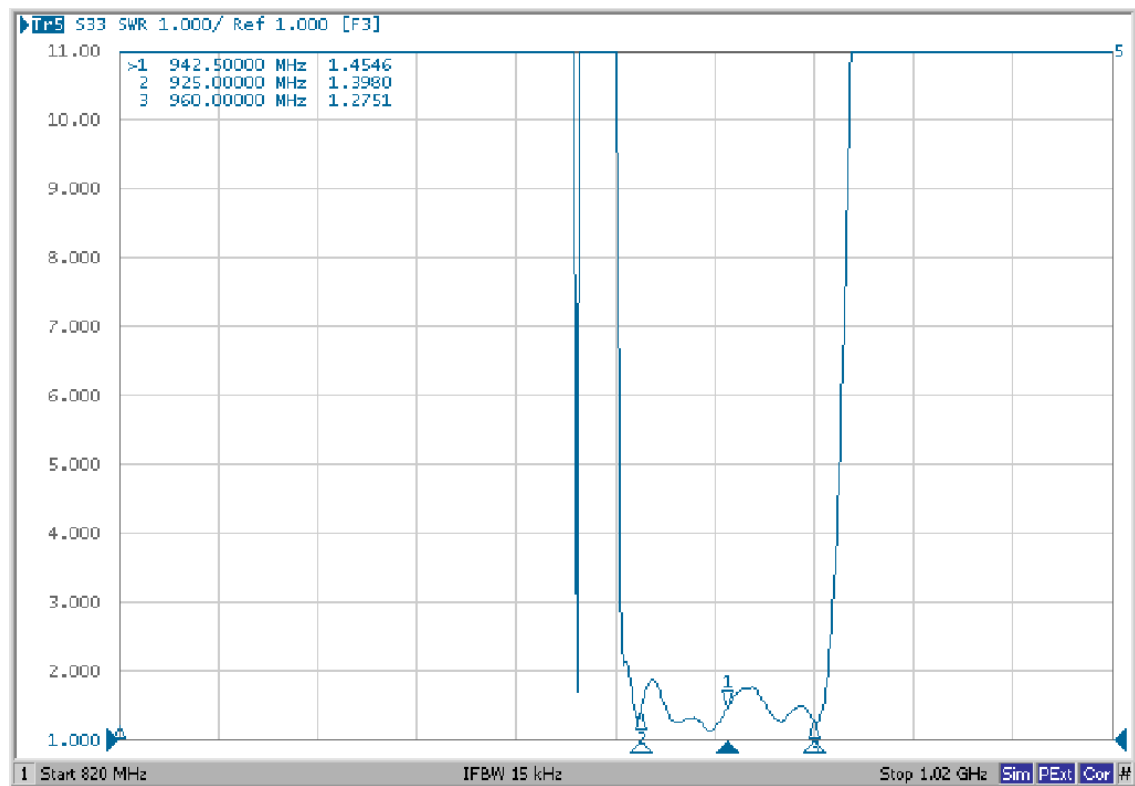
VSWR (Tx Port)



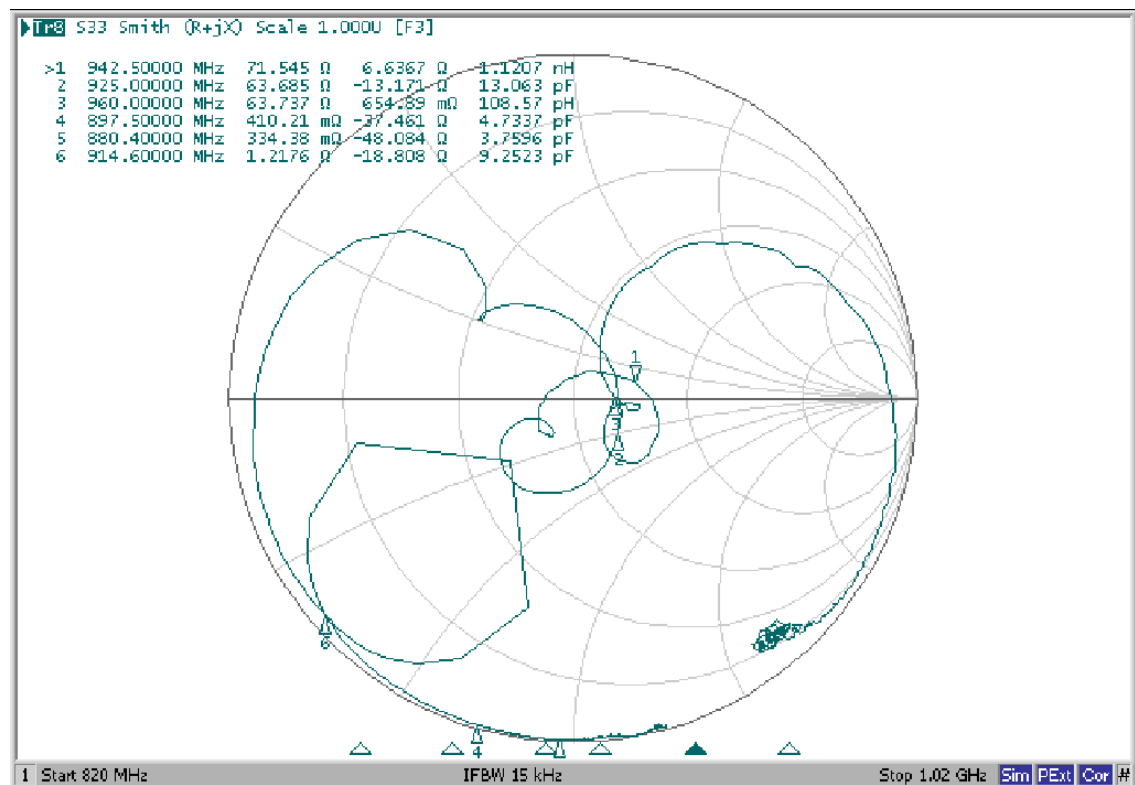
Smith Chart (Tx Port)



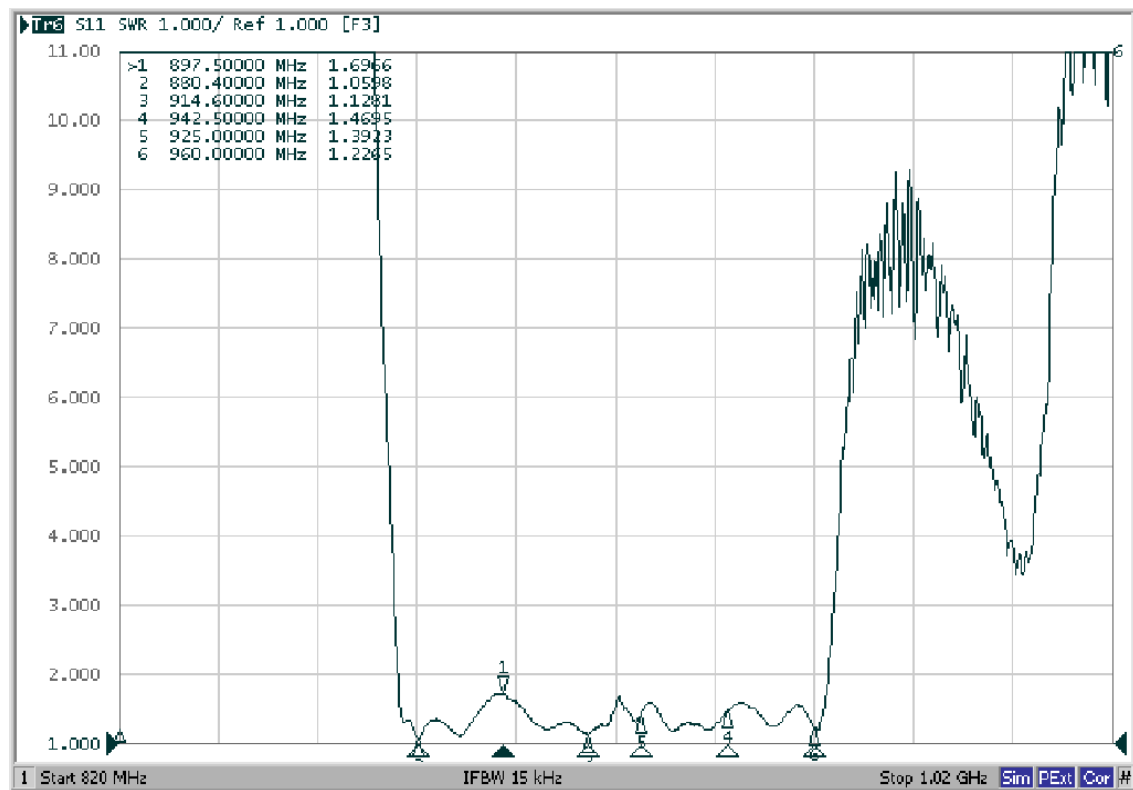
VSWR (Rx Port)



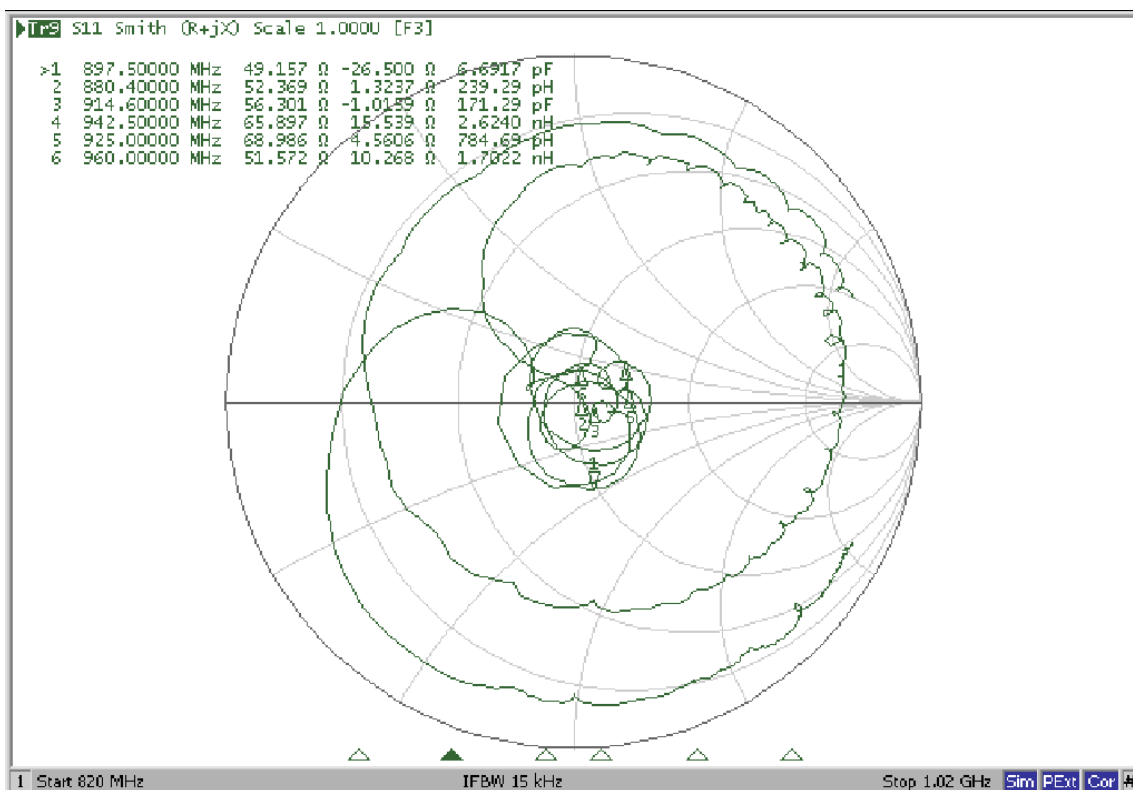
Smith Chart (Rx Port)



VSWR (ANT Port)

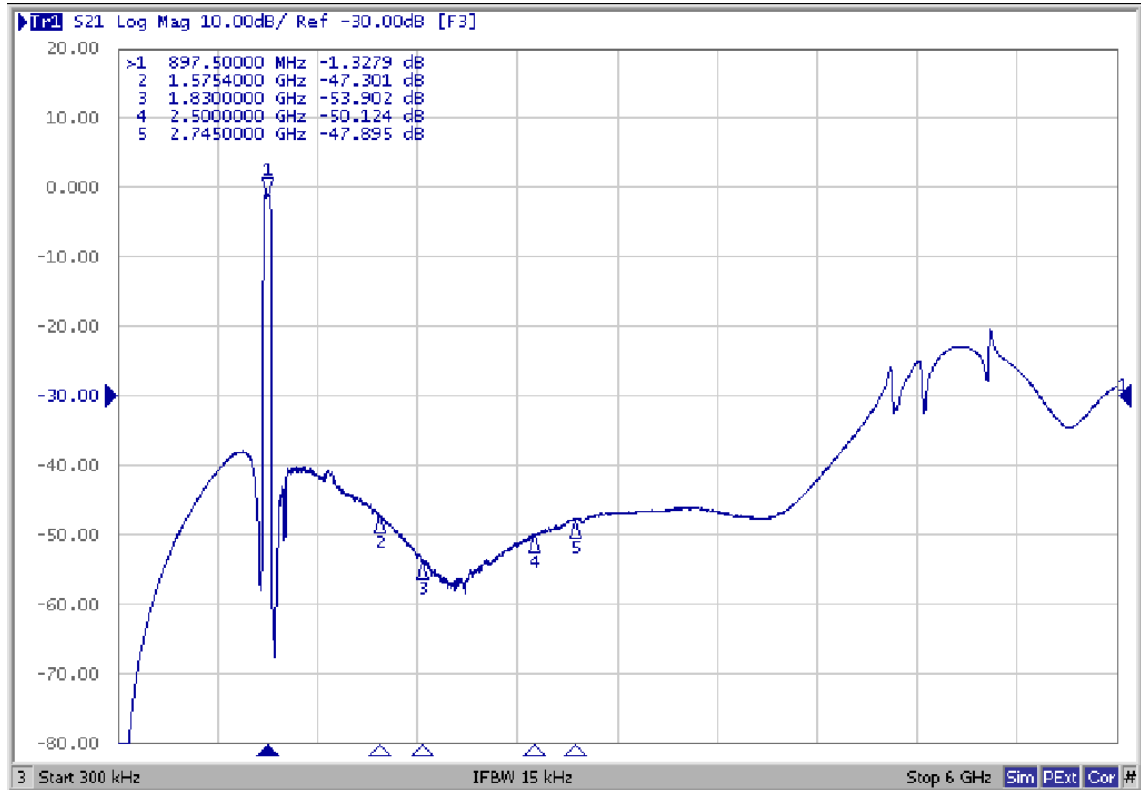


Smith Chart (ANT Port)

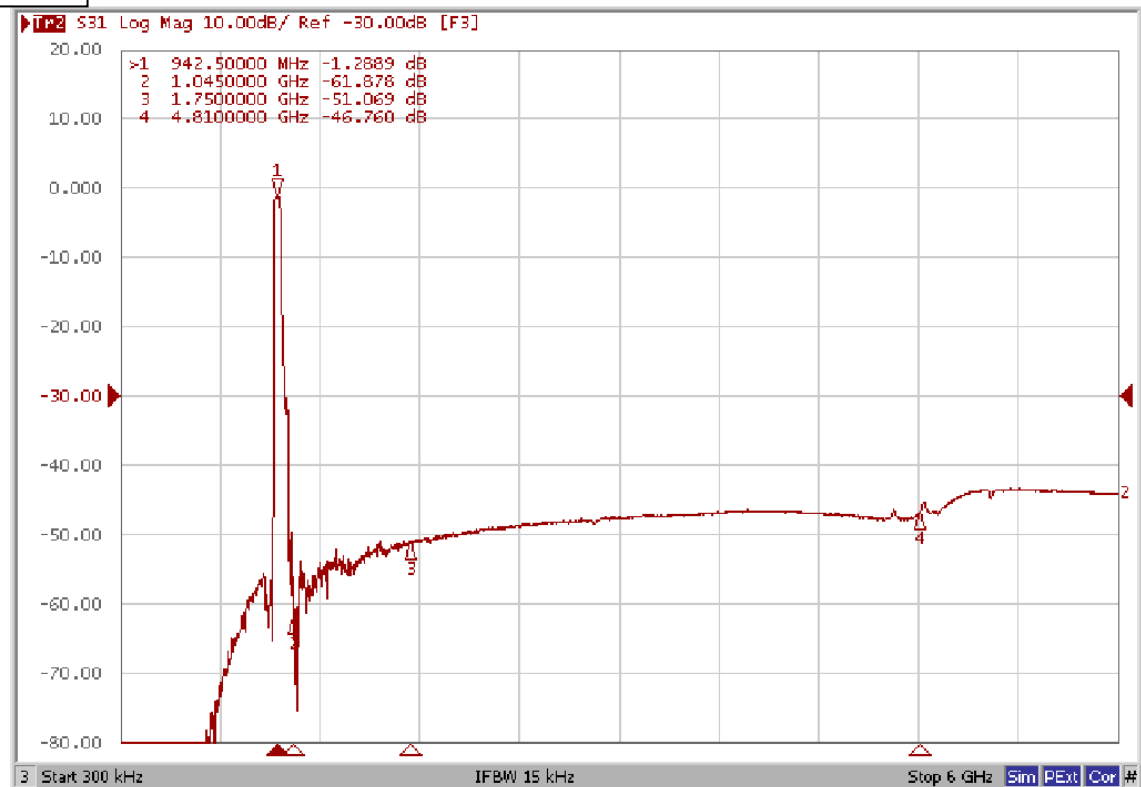


Wide Span

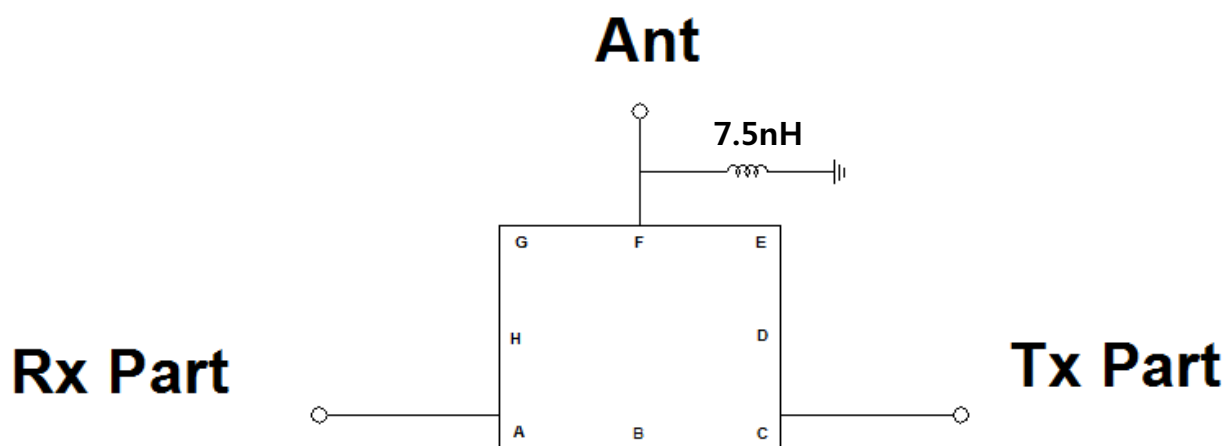
Tx



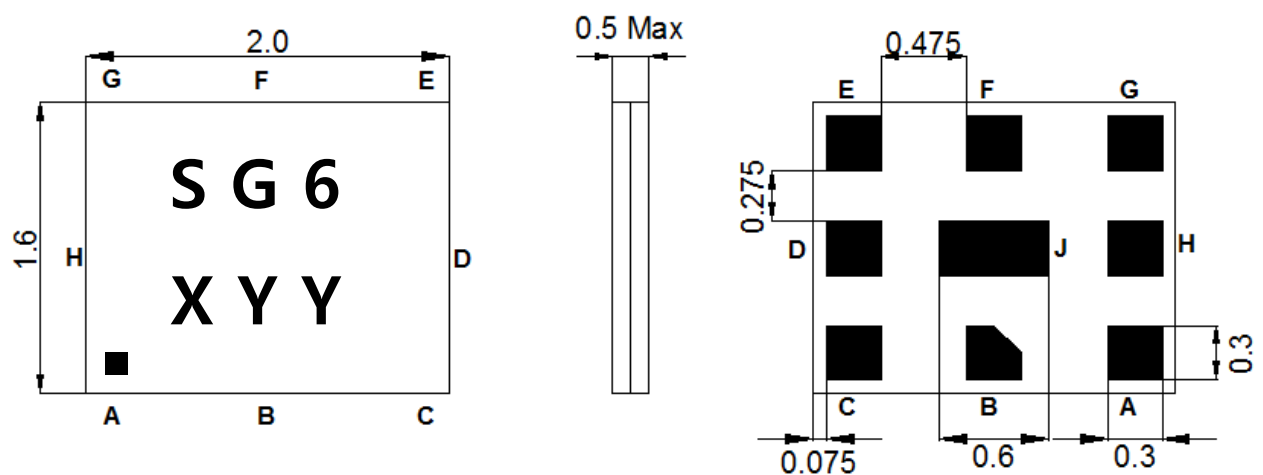
Rx



D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



Marking Descriptions	
S	Series Number 1
G6	Series Number 2
X	Date Code(Year+Month)
YY	Lot No
	Index Dot

Pin Description	
B,D,E,G,H	Ground
F	Ant
C	Tx (897.5MHz)
A	Rx (942.5MHz)

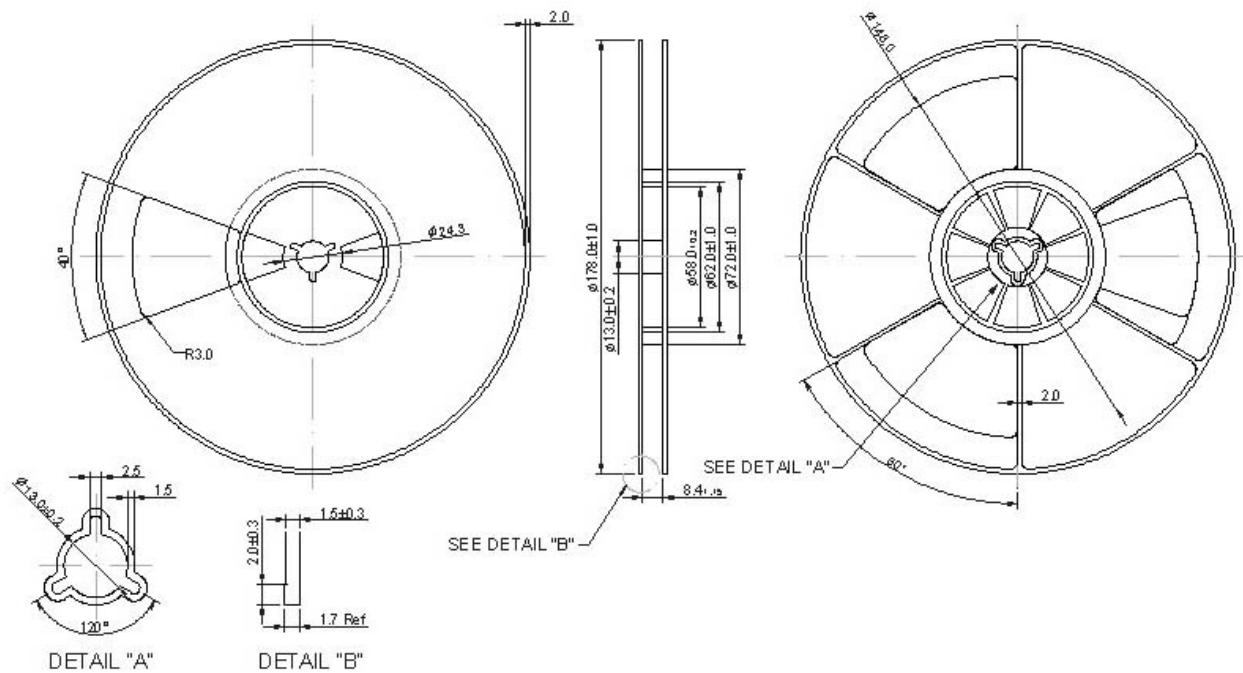
Date Code

■	year	month											
		1	2	3	4	5	6	7	8	9	10	11	12
	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

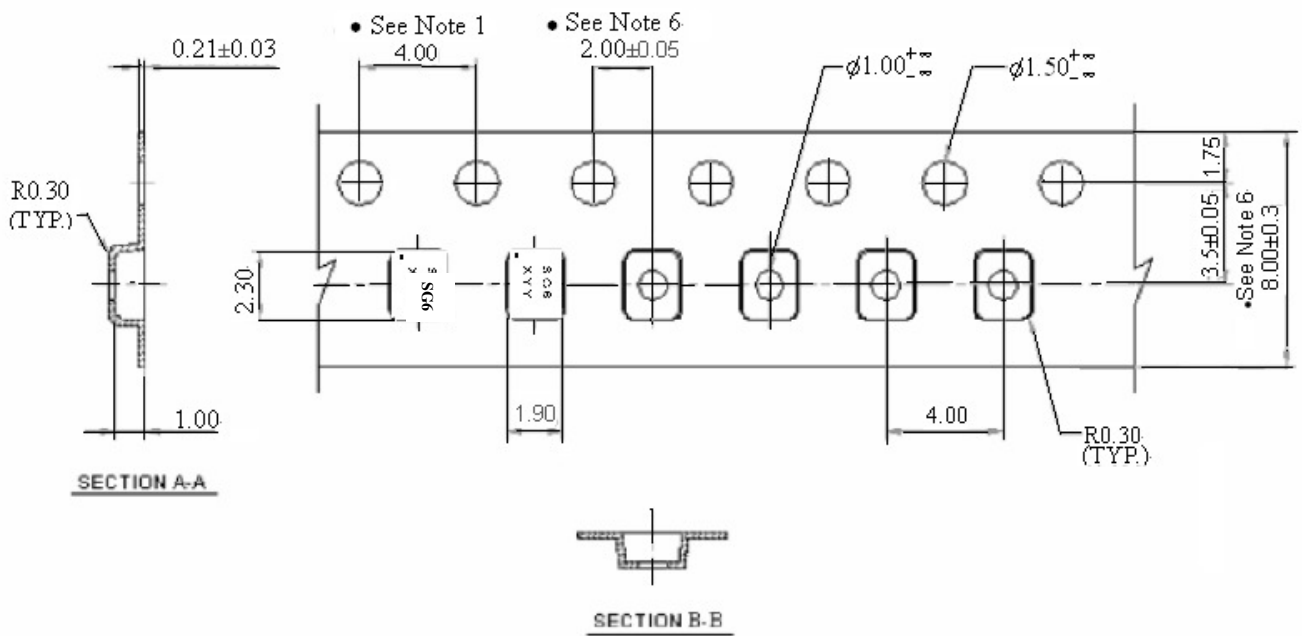
F. Packing:

1. REEL DIMENSION

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



2. TAPE DIMENSION



G. Recommended Reflow Profile:

