



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Name: SAW DPX 836.5/881.5MHz LTE Band 5 SMD 2016

TST Parts No.: TF0095A

Customer Part No.: _____

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

Checked by: _____ Hayley Chou *Hayley Chou*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2017/04/26

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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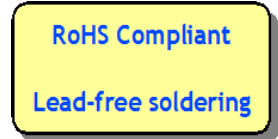
SAW DPX 836.5/881.5MHz LTE Band 5 SMD 2016(25MHz BW)

MODEL NO.: TF0095A

REV. No.: 2.0

A. MAXIMUM RATING:

1. Maximum Input Power: 29 dBm
2. DC voltage: 0 V
3. Operating Temperature: -30 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitivity Level: Level 1
6. ESD 100V (MM) 200V (HBM)



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//4.3nH Ω (Single-ended)

Tx to ANT

Parameters Description		Unit	Mini.	Typical	Max.	
Insertion Loss		824.0~849.0 MHz	dB	-	1.5	1.9
Amplitude Ripple		824.0~849.0 MHz	dB _{p-p}	-	0.3	0.9
VSWR	ANT	824.0~849.0 MHz	-	-	1.5	2.0
	Tx		-	-	1.7	2.0
Attenuation:						
DC~750.0 MHz			dB	25	33	-
779.0~804.0 MHz			dB	30	40	-
860.0~870.0 MHz			dB	3	7	-
869.0~894.0 MHz			dB	45	50	-
1574.0~1577.0 MHz			dB	45	50	-
1648.0~1698.0 MHz			dB	40	49	-
2472.0~2547.0 MHz			dB	25	33	-

ANT to Rx

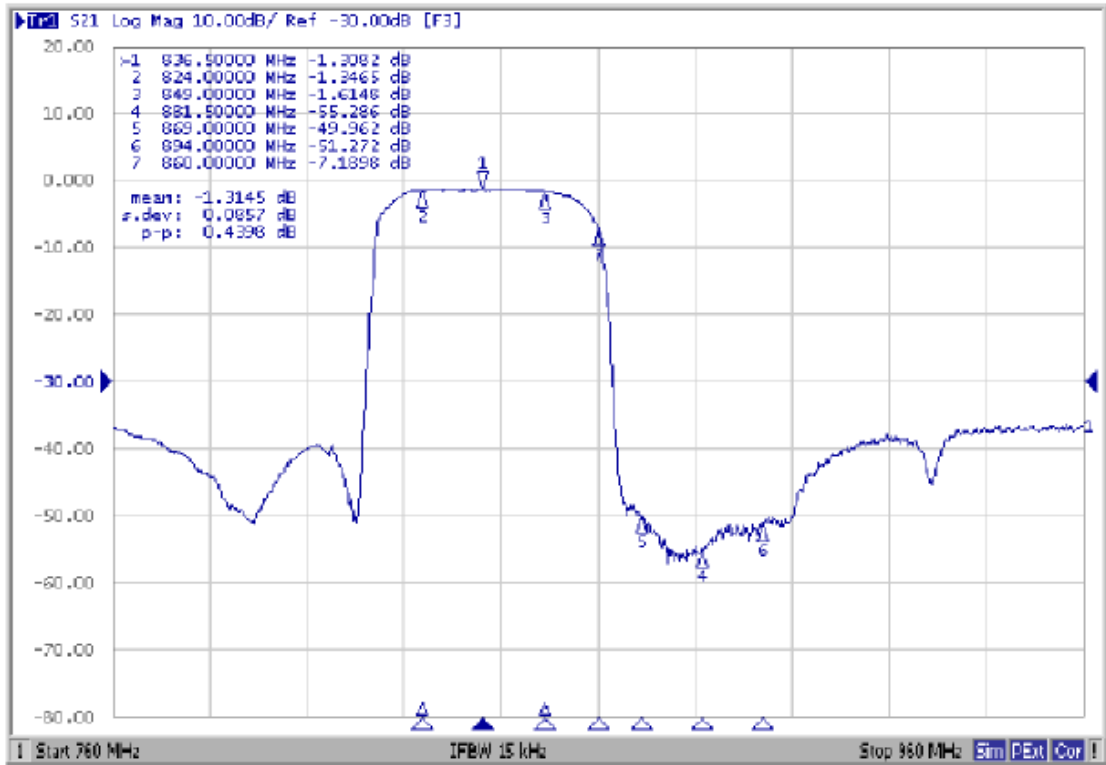
Parameters Description		Unit	Mini.	Typical	Max.	
Insertion Loss	869.0~894.0 MHz	dB	-	2.4	3.0	
Amplitude Ripple	869.0~894.0 MHz	dB _{p-p}	-	1.2	2.2	
VSWR	ANT	869.0~894.0 MHz	-	-	1.8	2.0
	Rx		-	-	1.8	2.0
Attenuation:						
779.0~804.0 MHz		dB	51	57	-	
824.0~849.0 MHz		dB	51	55	-	

Tx to Rx

Isolation	824.0~849.0 MHz	dB	55	58	-
	849.0~869.0 MHz	dB	12	14	-
	869.0~894.0 MHz	dB	47	51	-

C. Frequency Characteristics:

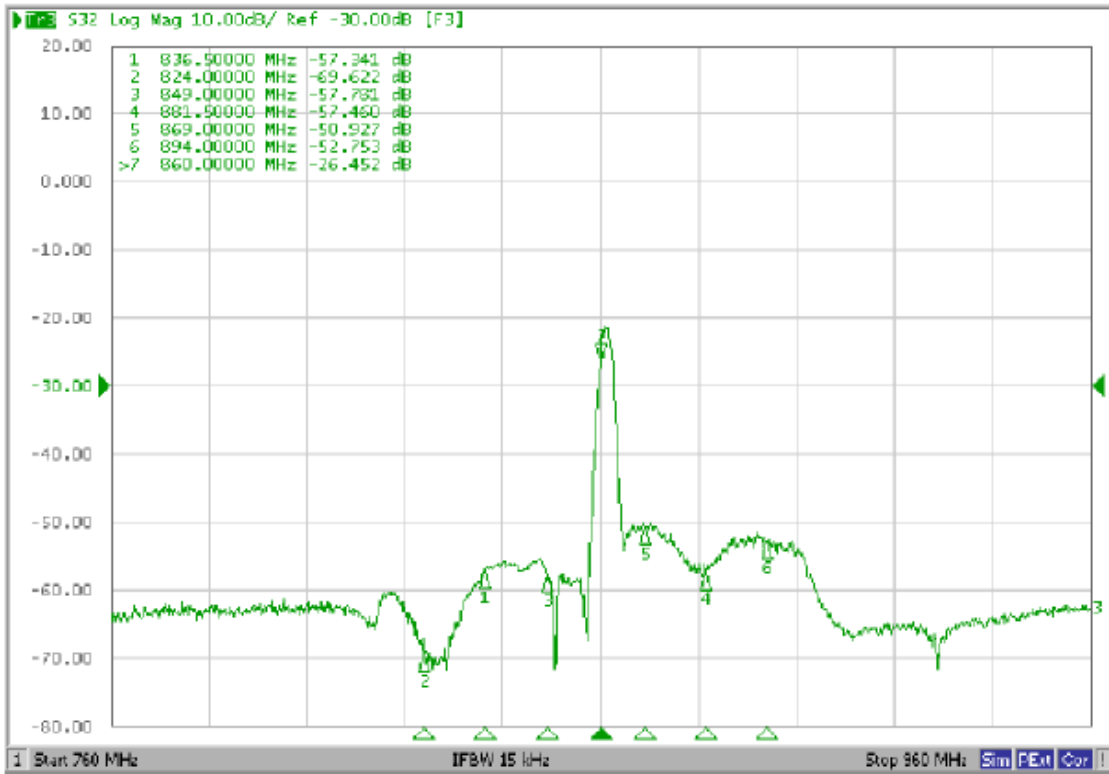
Tx to Ant



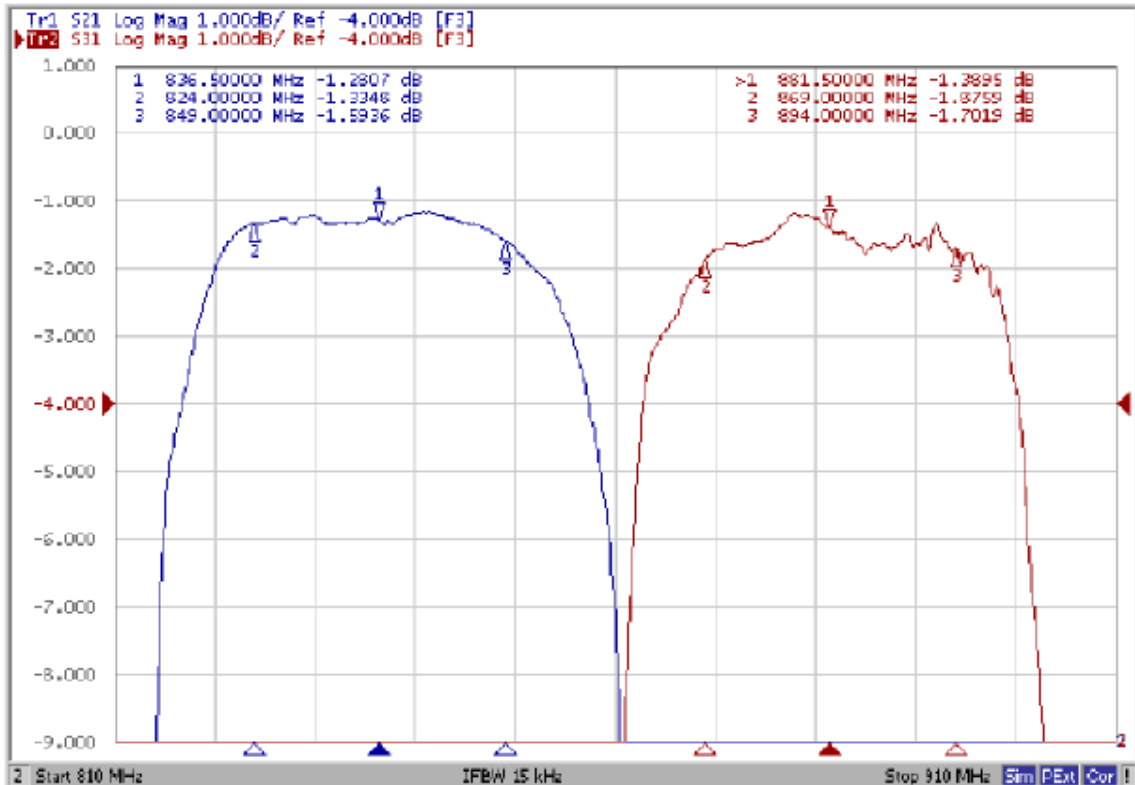
Ant to Rx



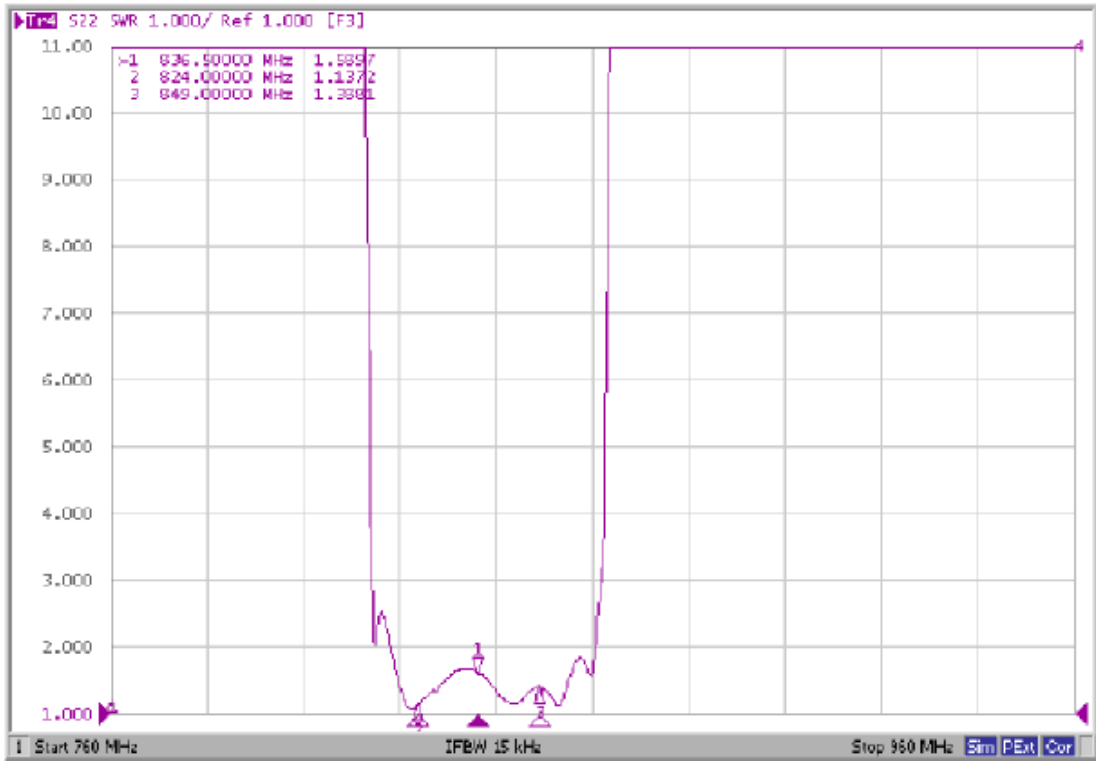
Isolation



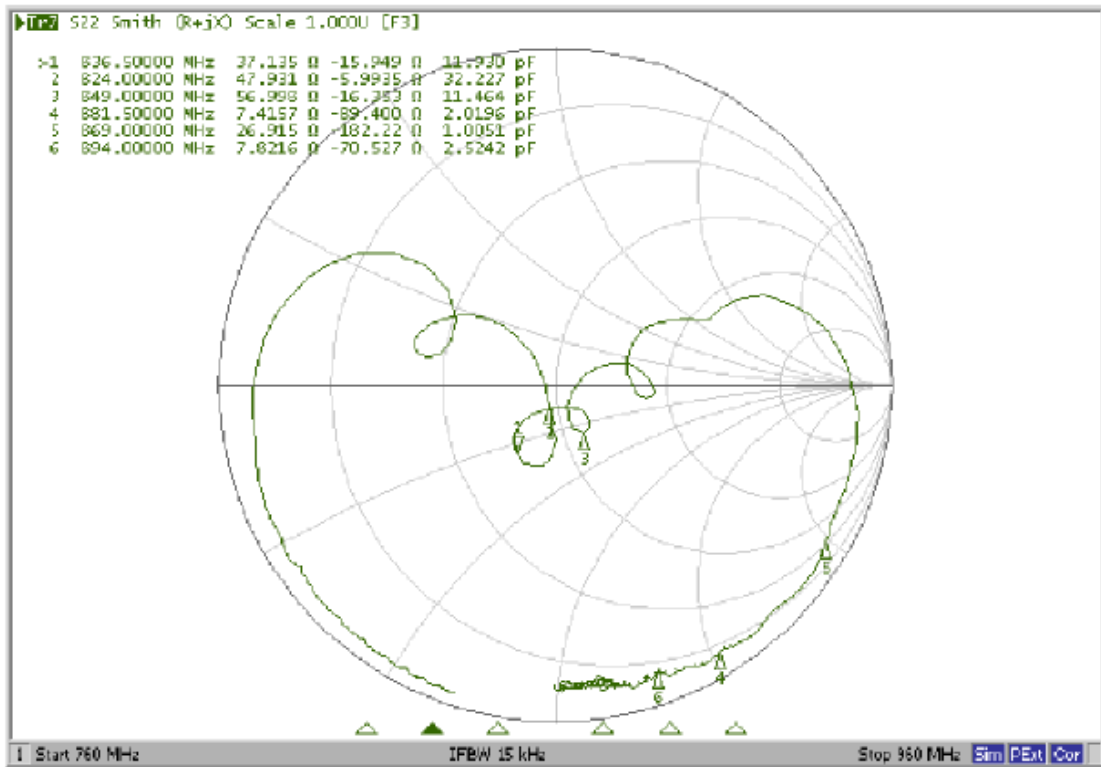
Ripple



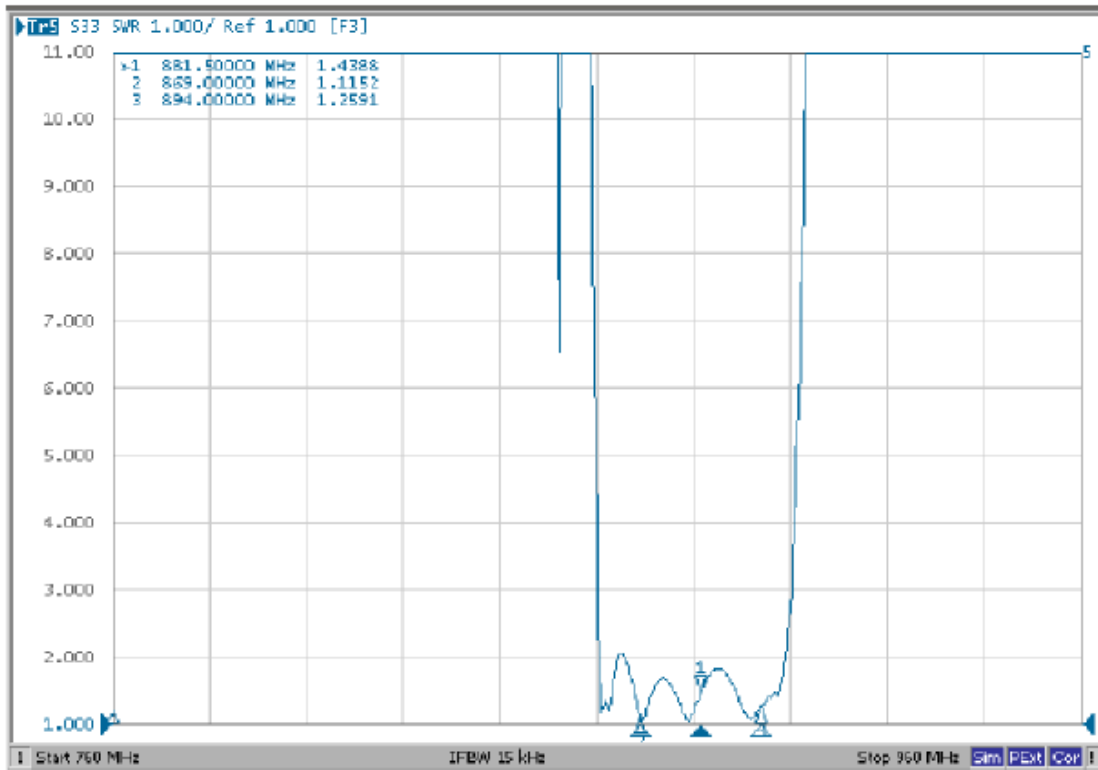
VSWR (Tx Port)



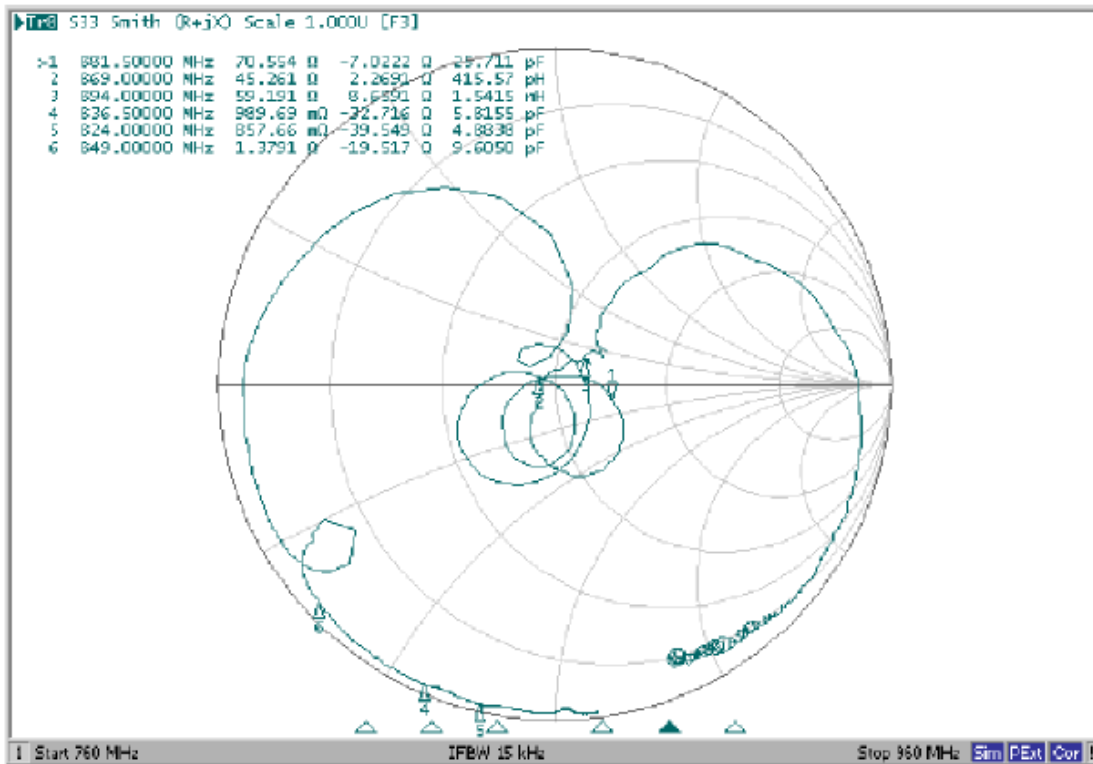
Smith Chart (Tx Port)



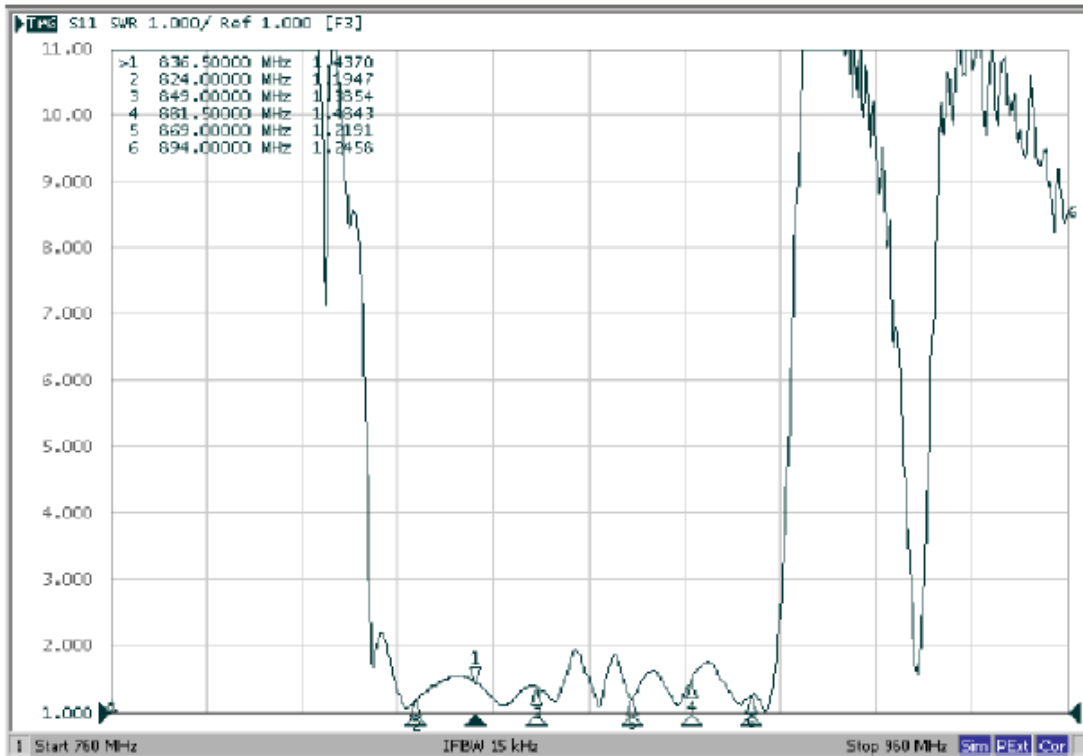
VSWR (Rx Port)



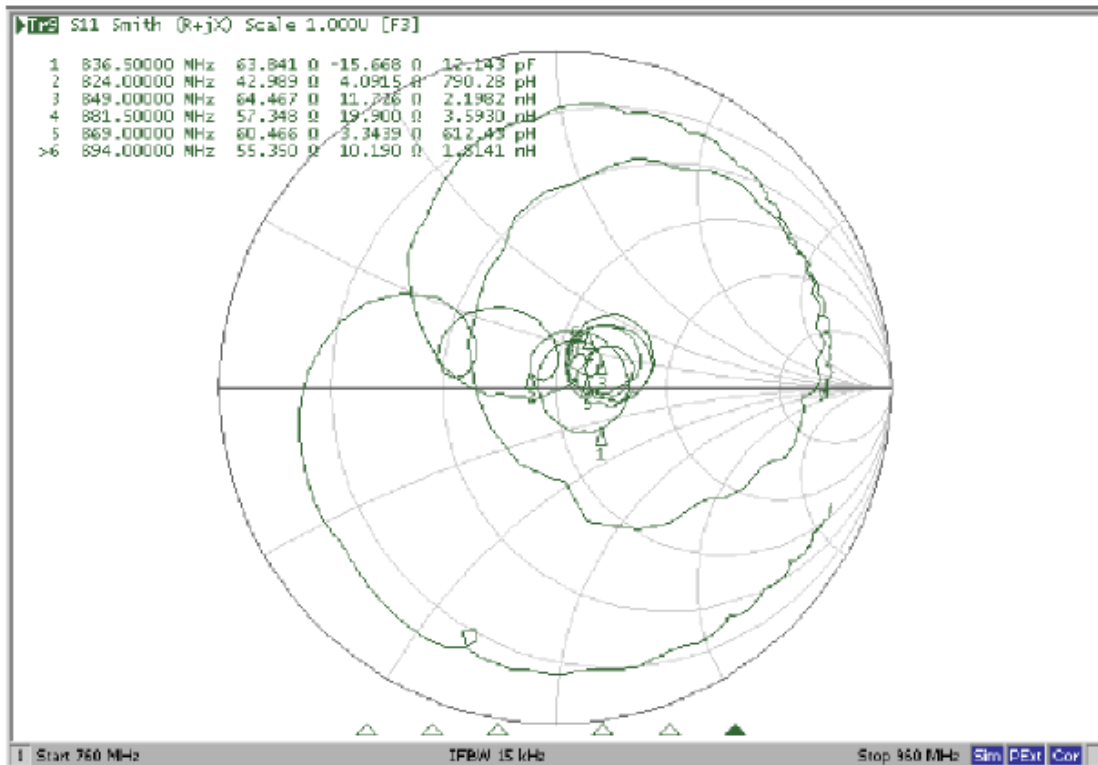
Smith Chart (Rx Port)



VSWR (ANT Port)

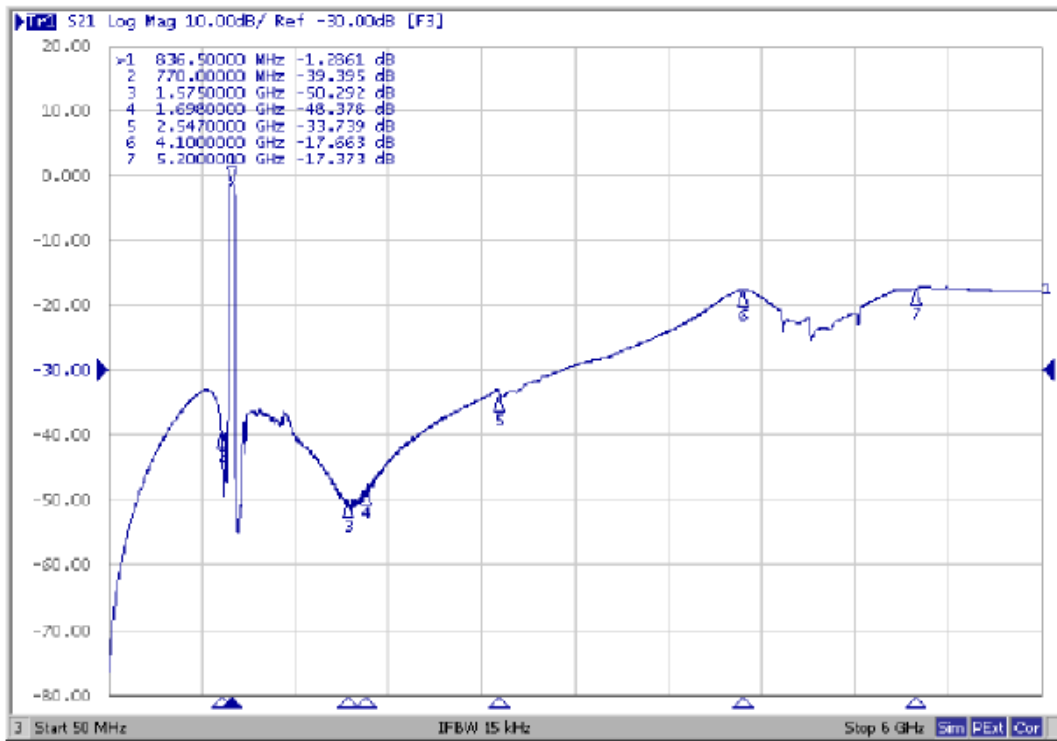


Smith Chart (ANT Port)



Wide Span

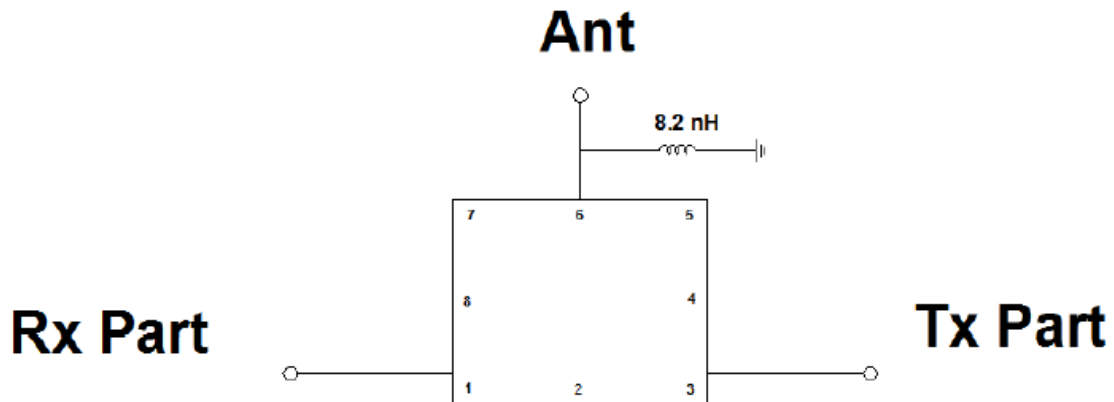
Tx



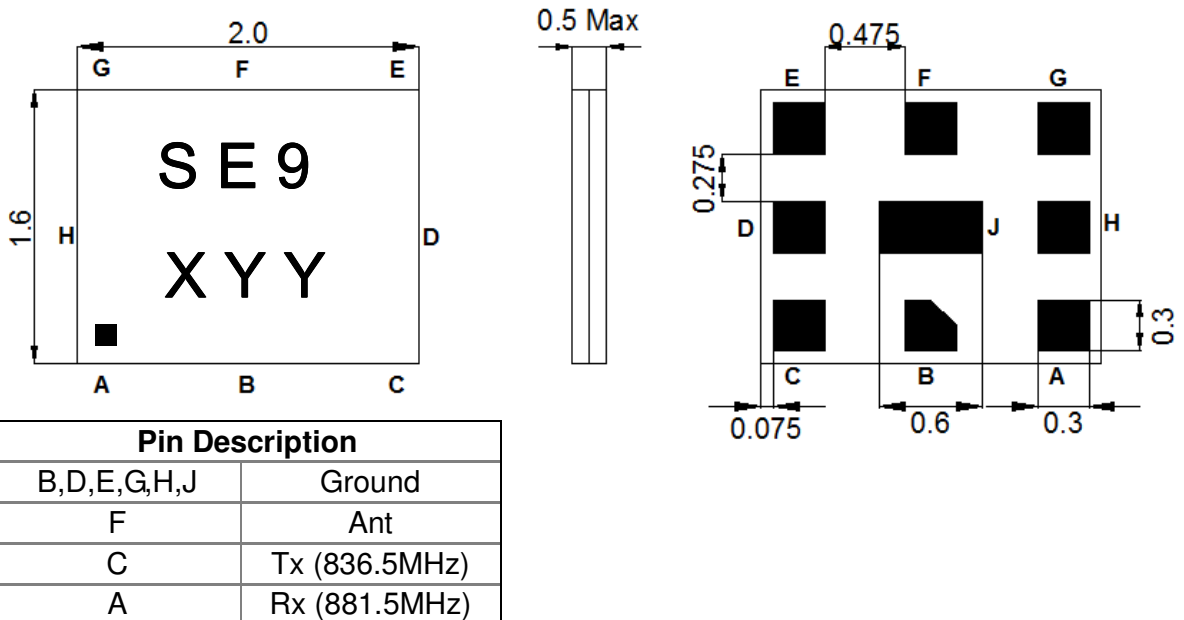
Rx



D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



Marking name : **SE9**

△ : Date code(2016 May → s ,....., 2019 Dec→m.)

◇◇: Lot Code.

Product Date Code. Follow below table.

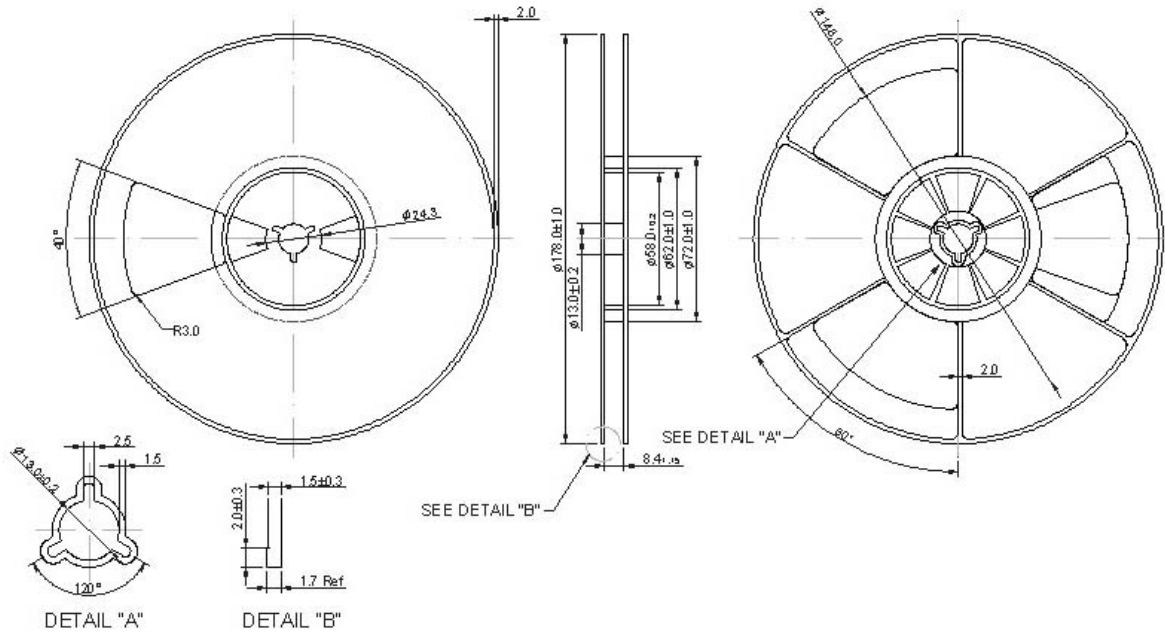
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	n	p	q	r	s	t	u	v	w	x	y	z

2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m

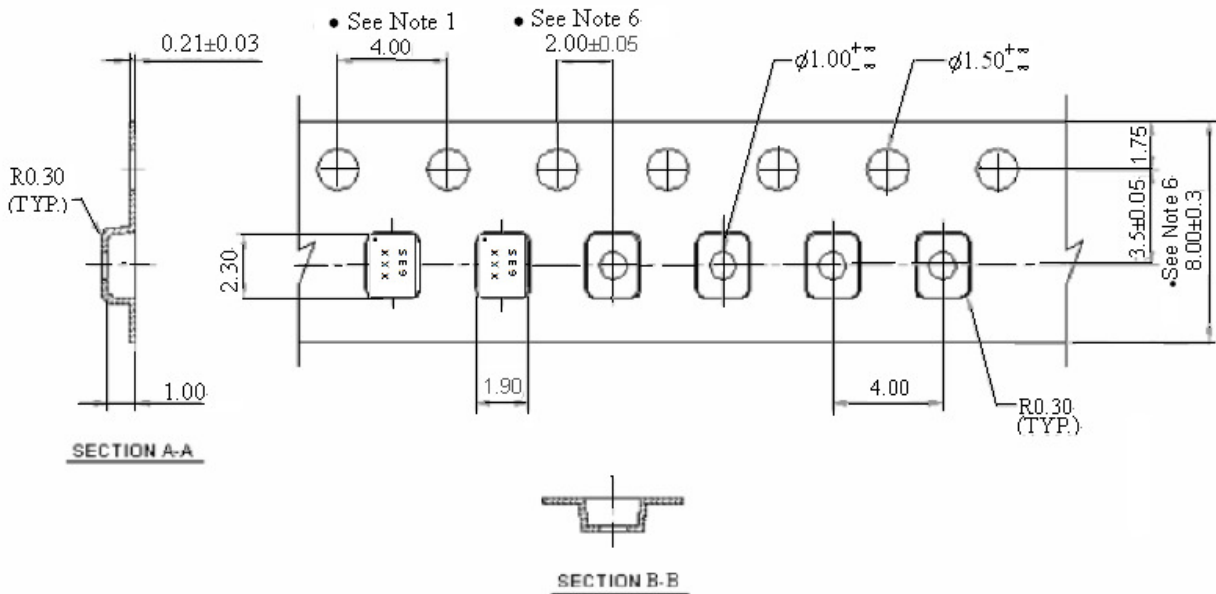
F. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



G. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time : 2 times.

