



HANGZHOU SAPPLAND MICROELECTRONICS TECHNOLOGY CO., LTD

SAW Device Data Sheet

Band 26 Duplexer / Unbalanced /1612

PN: SPSC26SU11F

Rev: 1.0

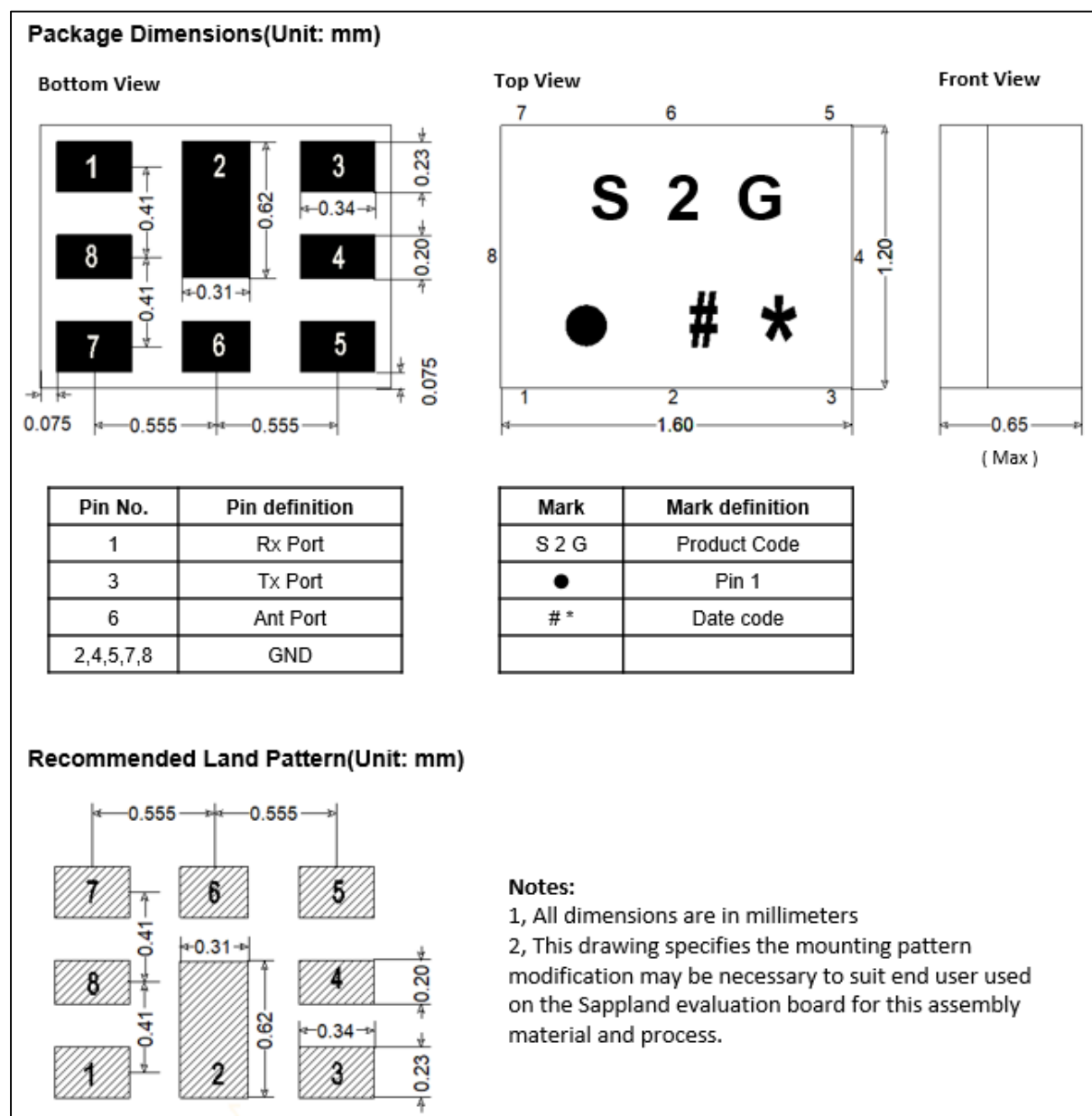
Feature:

- low insertion loss
- high isolation between Tx and Rx

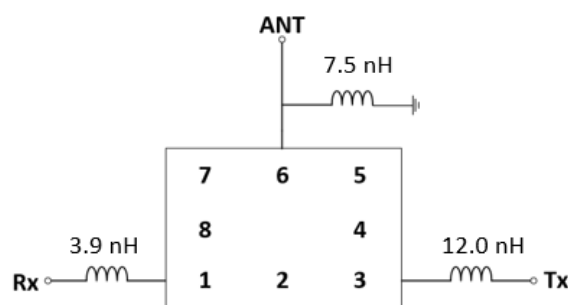
1.Revision History

Revision	Date	Comments
1.0	Jan-29-2025	Initial release

2.Package and Pin map



Application circuit (with ideal components)



3. Performance

3.1 Absolute maximum ratings

Item	Rating	Note
Storage Temperature	-40 ~ 85 °C	
Operating Temperature	-30 ~ 85 °C	
Input Power Max	30 dBm	LTE, 5000h, 55°C
D.C Voltage between the terminals	3 V	25±2deg.C

3.2 Electrical specification

Tx Electrical specification (-30 to +85 °C)

TX to ANT		Characteristics			Unit	Note
		min	Typ. ¹	max		
Center Frequency		-	831.50	-	MHz	
Insertion Loss	814.24 ~ 848.76 MHz		1.6	2.4	dB	
Amplitude ripple	814.24 ~ 848.76 MHz		0.6	2.0	dB	
VSWR	814.24 ~ 848.76 MHz		1.5	2.0	-	Tx
	814.24 ~ 848.76 MHz		1.5	2.0	-	ANT
Absolute attenuation	10.00 ~ 420.00 MHz	35	40		dB	
	420.00 ~ 494.00 MHz	30	35		dB	
	728.00 ~ 764.00 MHz	25	30		dB	
	859.00 ~ 894.00 MHz	40	50		dB	
	1475.90 ~ 1510.90 MHz	40	45		dB	
	1559.00 ~ 1607.00 MHz	40	45		dB	
	1628.00 ~ 1698.00 MHz	35	45		dB	
	1930.00 ~ 1995.00 MHz	35	40		dB	
	2110.00 ~ 2170.00 MHz	35	40		dB	
	2400.00 ~ 2690.00 MHz	30	35		dB	
	3256.00 ~ 3396.00 MHz	25	30		dB	
	3300.00 ~ 3800.00 MHz	25	30		dB	
	4070.00 ~ 4245.00 MHz	30	35		dB	
	4400.00 ~ 5000.00 MHz	30	35		dB	
	5150.00 ~ 5925.00 MHz	25	30		dB	

1) Typical value at 25±2deg.C

Rx Electrical specification (-30 to +85 °C)

ANT to RX		Characteristics			Unit	Note
		min	Typ. ¹	max		
Center Frequency		-	876.50	-	MHz	
Insertion Loss	859.24 ~ 893.76 MHz		1.7	2.5	dB	
Amplitude ripple	859.24 ~ 893.76 MHz		0.8	2.0	dB	
VSWR	859.24 ~ 893.76 MHz		1.6	2.0	-	Rx
	859.24 ~ 893.76 MHz		1.6	2.0	-	ANT
Absolute attenuation	10.00 ~ 447.00 MHz	45	55		dB	
	45.00 ~ 45.00 MHz	45	50		dB	
	814.00 ~ 849.00 MHz	45	55		dB	
	1427.00 ~ 1447.00 MHz	45	55		dB	
	1710.00 ~ 1785.00 MHz	45	55		dB	
	1850.00 ~ 1915.00 MHz	40	50		dB	
	1920.00 ~ 1985.00 MHz	40	50		dB	
	2400.00 ~ 2500.00 MHz	45	50		dB	
	3300.00 ~ 3800.00 MHz	45	55		dB	
	4400.00 ~ 5000.00 MHz	45	55		dB	
	4900.00 ~ 5950.00 MHz	45	55		dB	

1) Typical value at 25±2deg.C

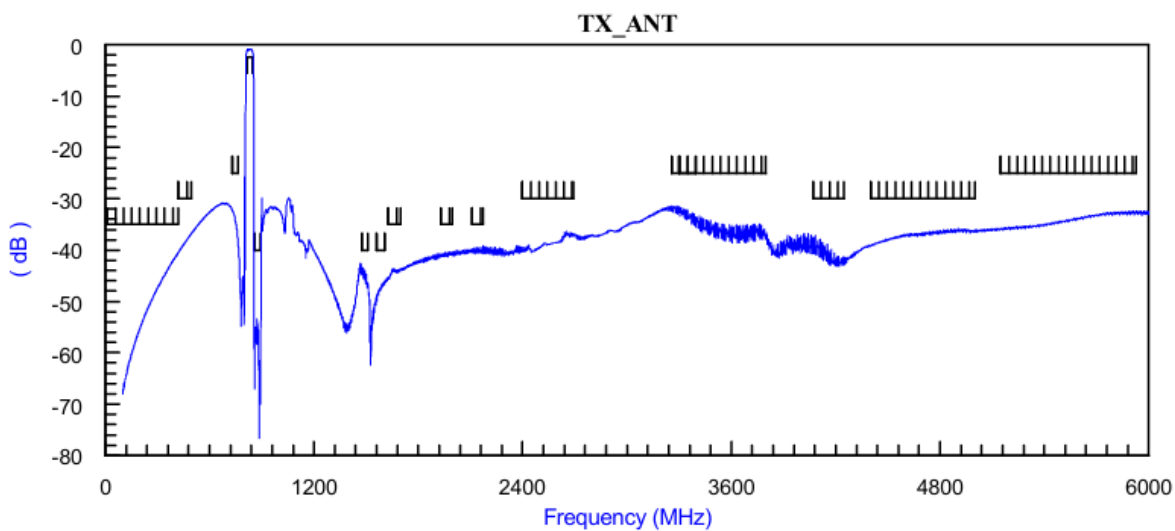
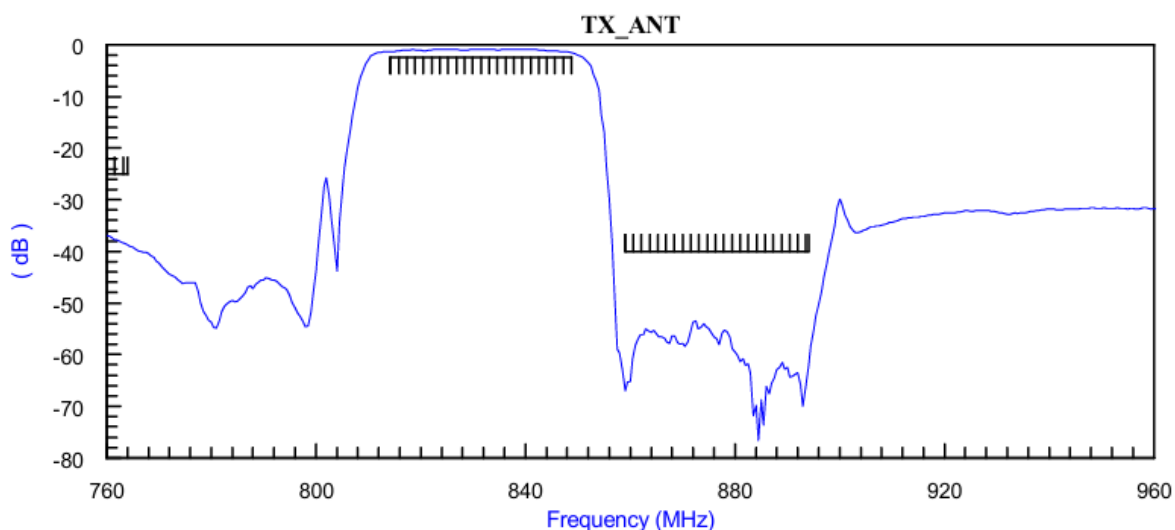
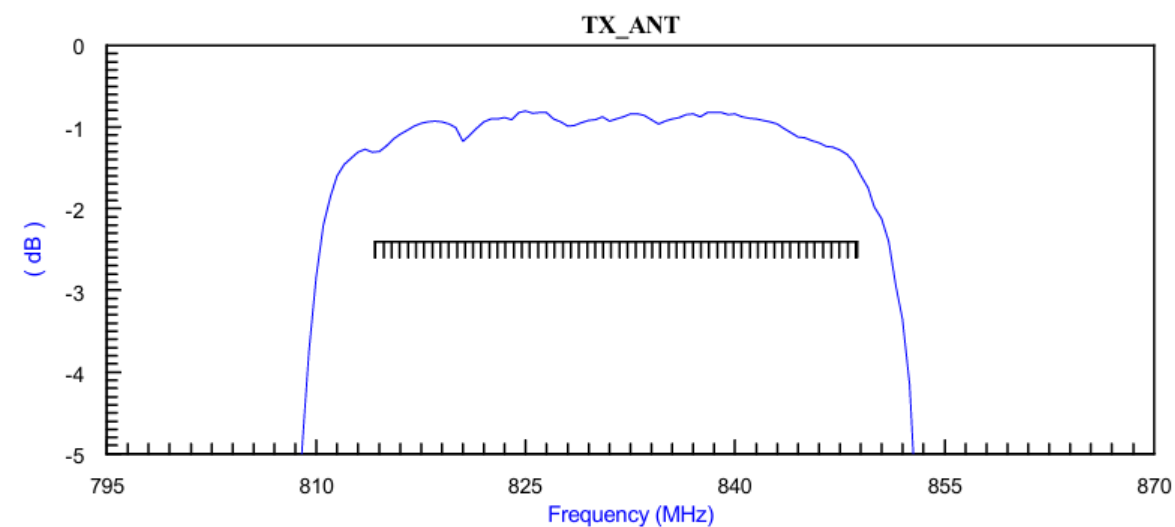
Tx/Rx Electrical specification (-30 to +85 °C)

TX / RX		Characteristics			Unit	Note
		min	Typ. ¹	max		
Isolation	814.24 ~ 848.76 MHz	52	58		dB	
	859.24 ~ 893.76 MHz	52	56		dB	

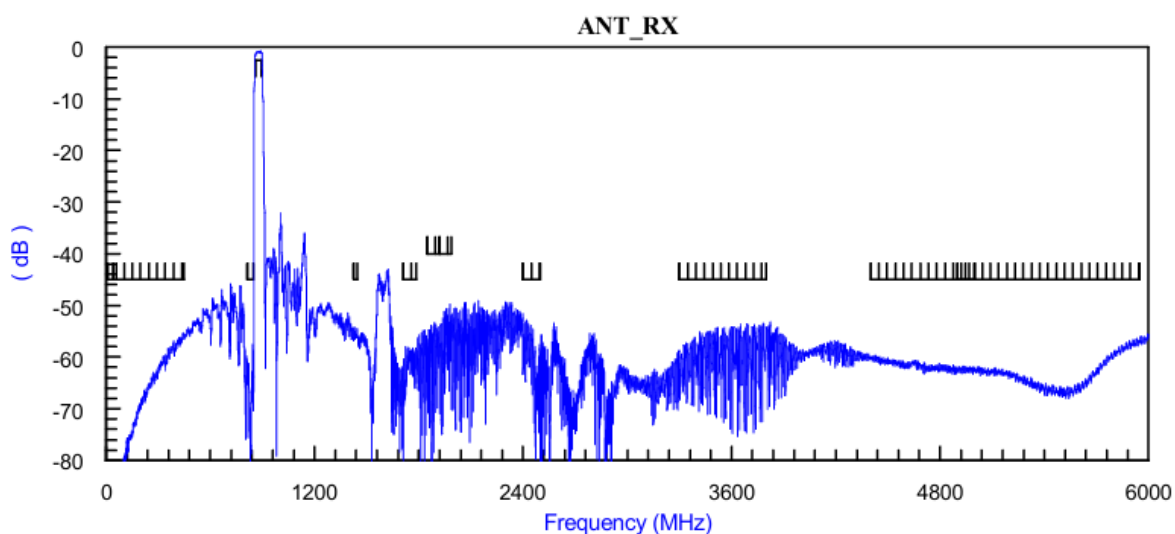
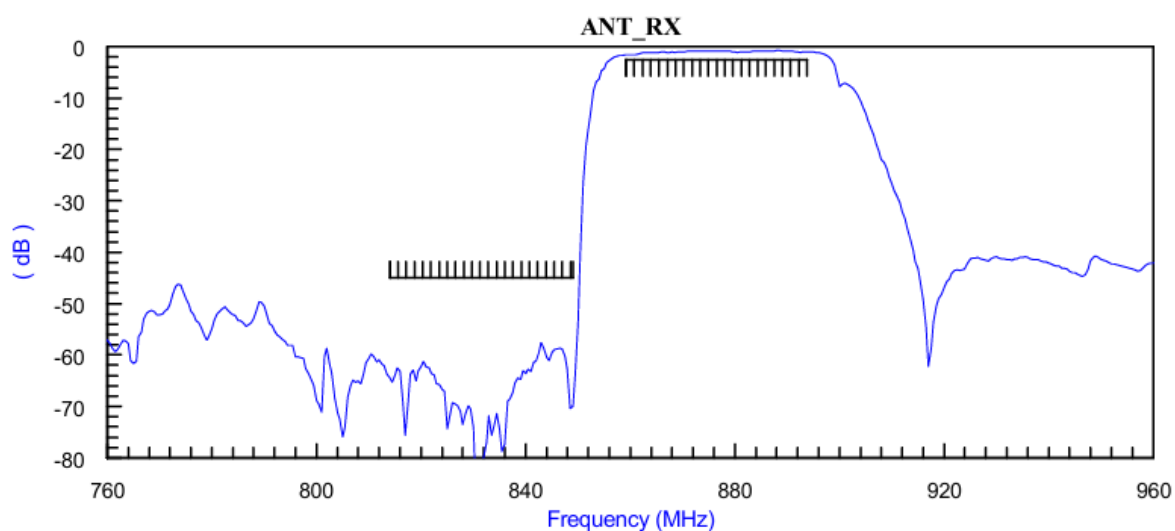
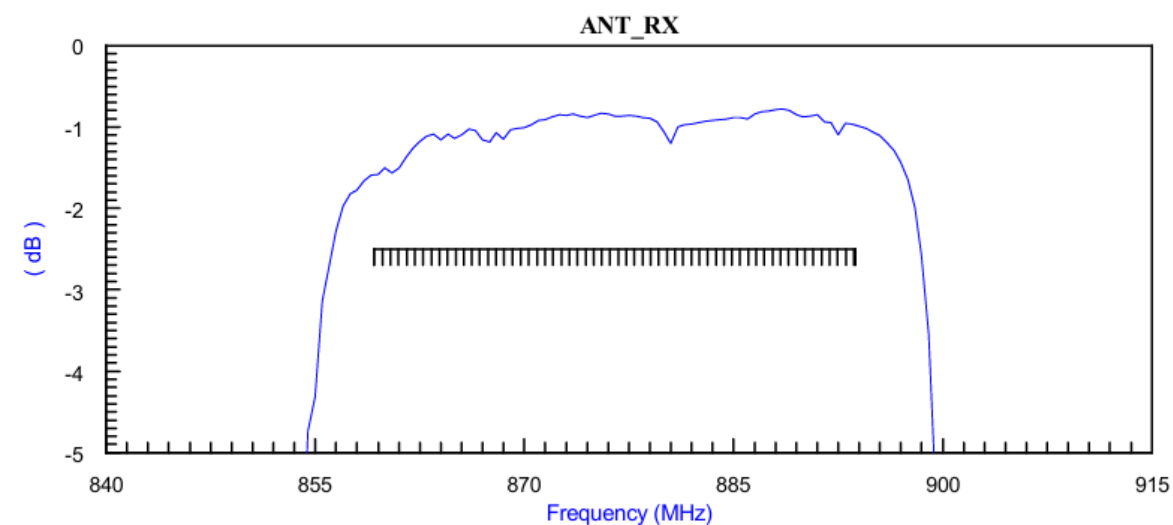
1) Typical value at 25±2deg.C

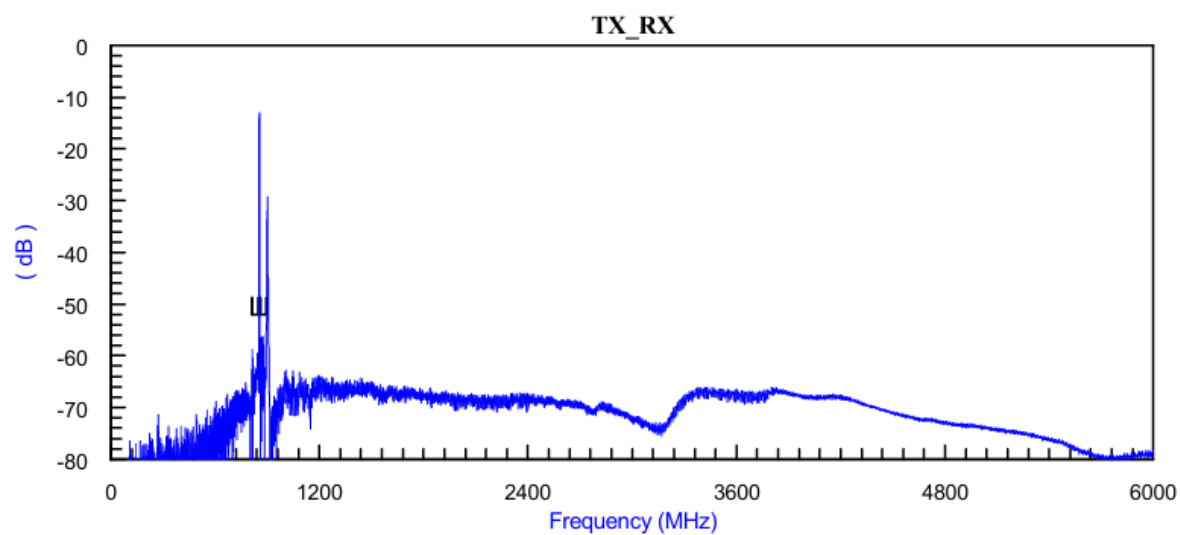
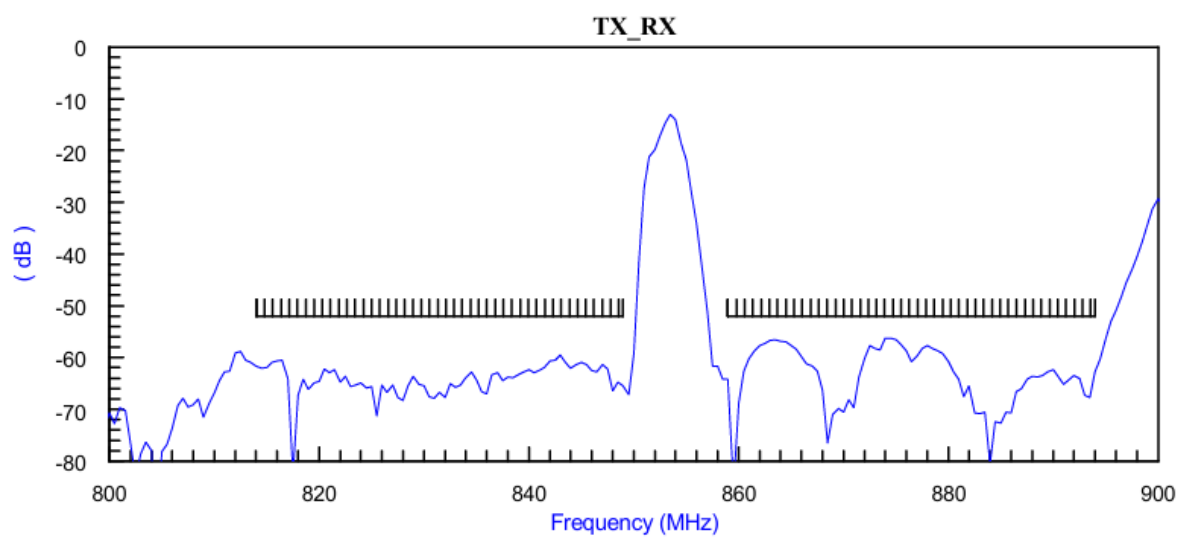
3.3 Plots

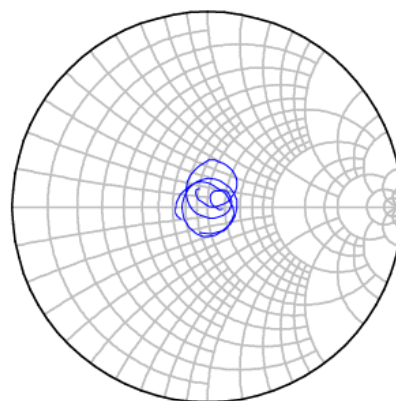
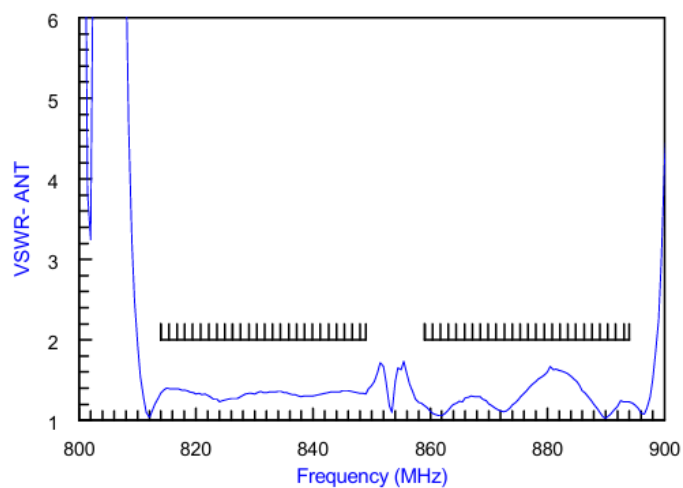
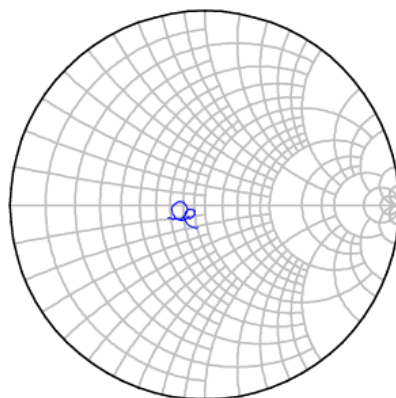
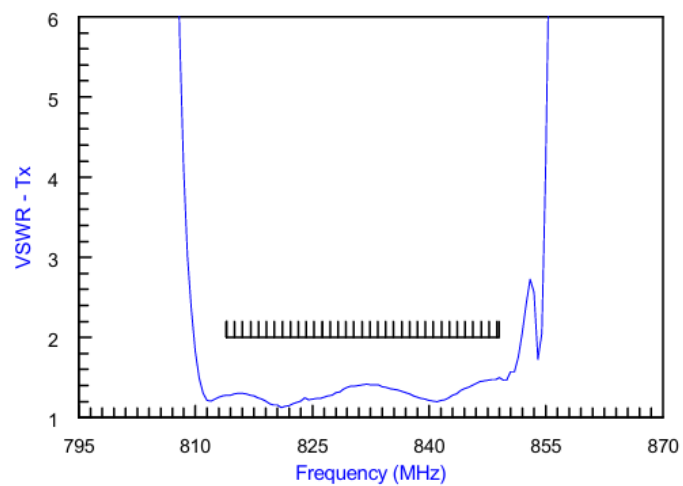
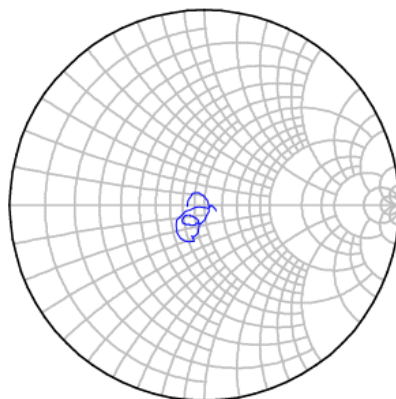
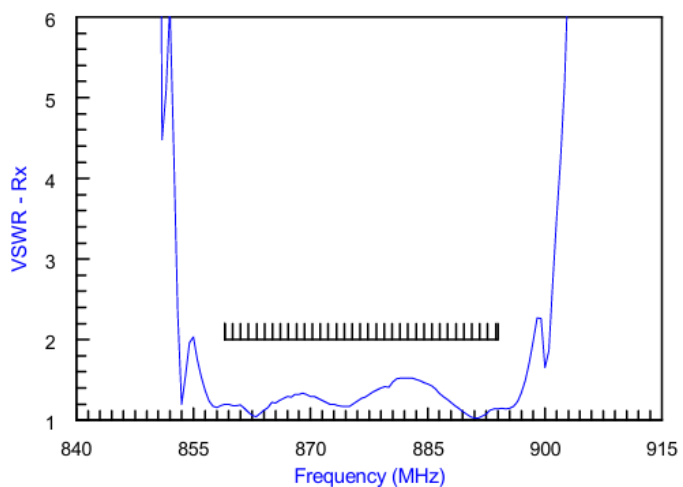
Tx - Ant



Ant - Rx



Tx – Rx

Ant – VSWR / Impedance**Tx – VSWR / Impedance****Rx – VSWR / Impedance**

4.Packing Information

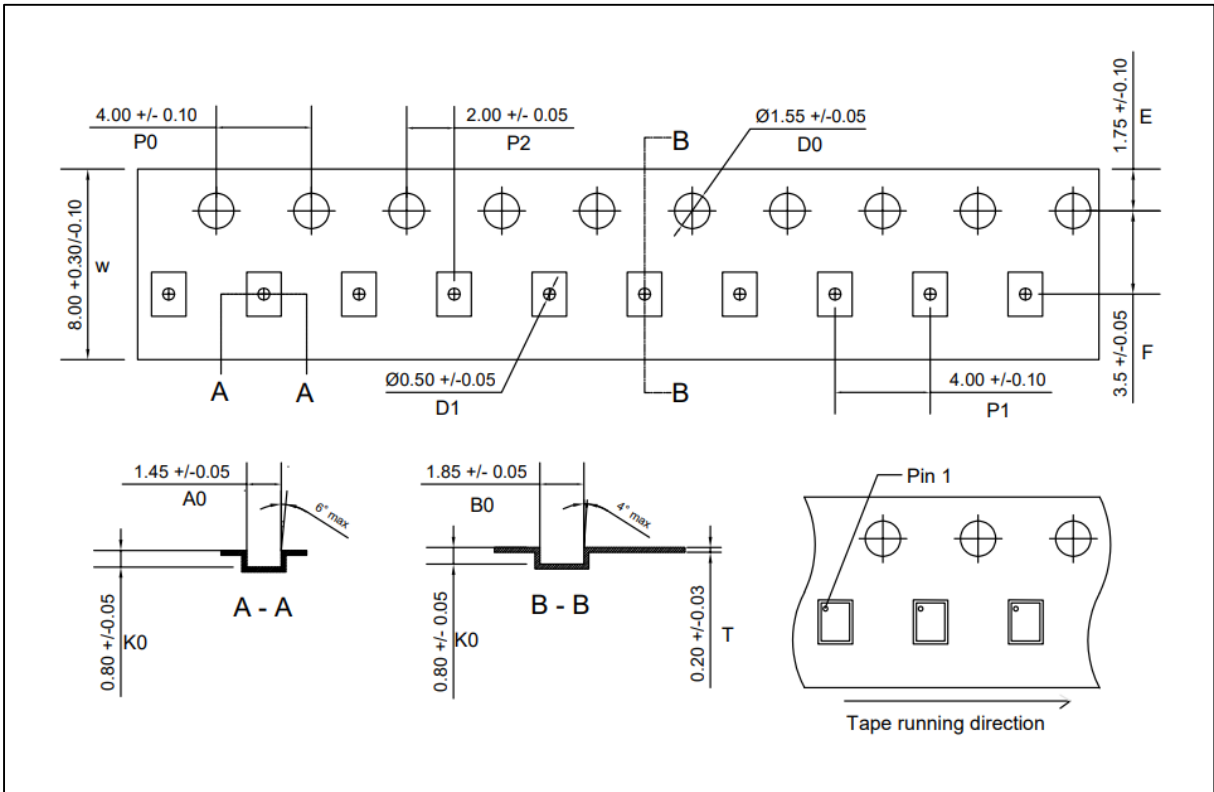


Figure 4-1 Carrier Tape Drawing (unit: mm)

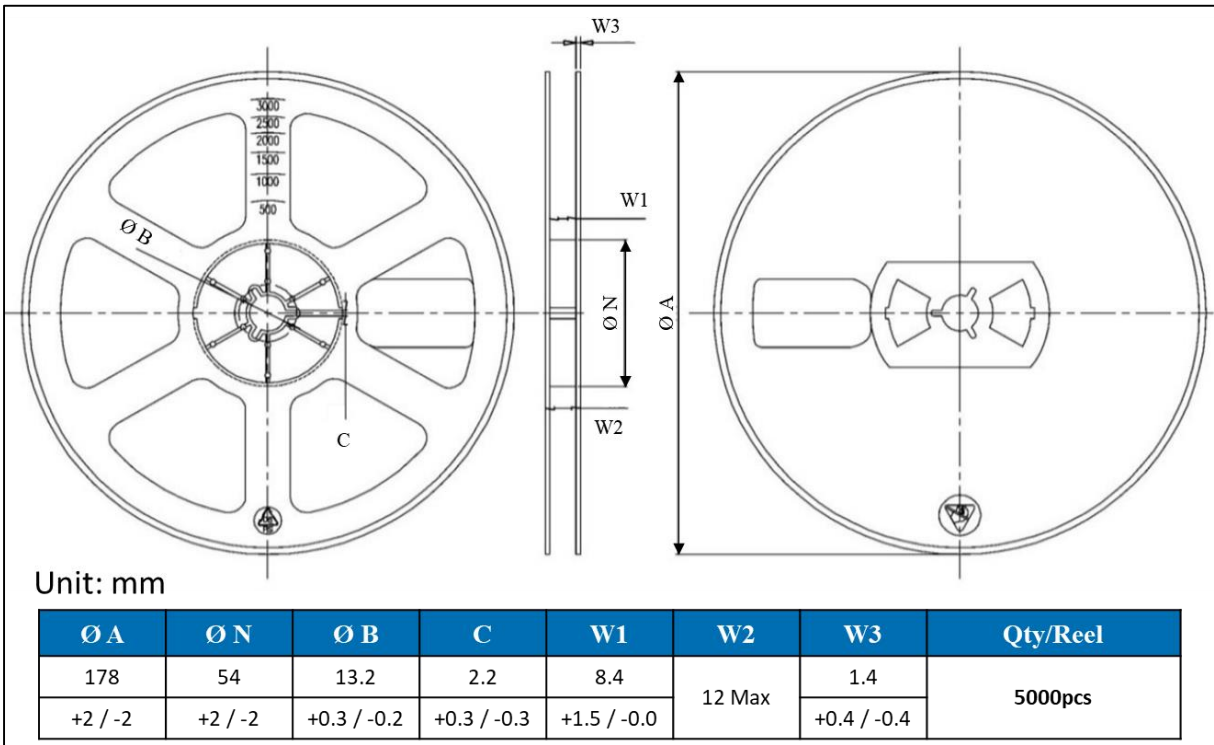


Figure 4-2 Reel Dimensions (Unit: mm) and Reeling Qty'