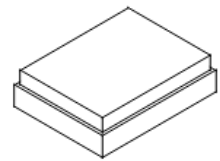


SF2600NM

**1455.4/1503.4 MHz
Filter Duplexer**



SM1814

MAXIMUM RATING:

- Input Power Level (Tx to ANT 1447.9~1462.9 MHz):
29 dBm, CW , +50 °C, 10000 h
29 dBm, LTE 5 MHz 1RB, +50 °C, 10000 h
30 dBm, CW , +50 °C, 5000 h
30 dBm, LTE 5 MHz 1RB, +50 °C, 5000 h
- DC Voltage : +/-5 V
- Operating Temperature: -40 °C to +85 °C
- Storage Temperature: -40 °C to +85 °C
- Moisture Sensitive Level: Level 1 (MSL1)
- ESD: 50 V(MM), 100 V(HBM)

ELECTRICAL CHARACTERISTICS:

Terminating impedance (Tx port): 50 Ω

Terminating impedance (Rx port): 50 Ω

Terminating impedance (Ant port): 50//8.5nH Ω

Tx to Ant

Item	Unit	Min.	Typ.	Max.	Note
Insertion Loss (1447.9~1462.9 MHz)	dB(*1)	-	1.3	1.8	-
Amplitude Ripple (1447.9~1462.9 MHz)	dB	-	0.4	1.0	-
VSWR Tx (1447.9~1462.9 MHz)	-	-	1.3	2.0	-
VSWR Ant (1447.9~1462.9 MHz)	-	-	1.3	2.0	-
Attenuation (Reference level from 0 dB)					
1475.9 ~ 1495.9 MHz	dB	5	9	-	+15~+70 °C
1495.9 ~ 1510.9 MHz	dB	50	60	-	-
1559 ~ 1563 MHz	dB	35	43	-	-
1565.42 ~ 1573.38 MHz	dB	36	50	-	-
1573.37 ~ 1577.47 MHz	dB	40	55	-	-
1577.46 ~ 1585.42 MHz	dB	37	50	-	-
1597.55 ~ 1605.89 MHz	dB	40	45	-	-
2400 ~ 2500 MHz	dB	38	49	-	-
2895.8 ~ 2925.8 MHz	dB	33	40	-	-
4343.7 ~ 4388.7 MHz	dB	22	30	-	-

Ant to Rx

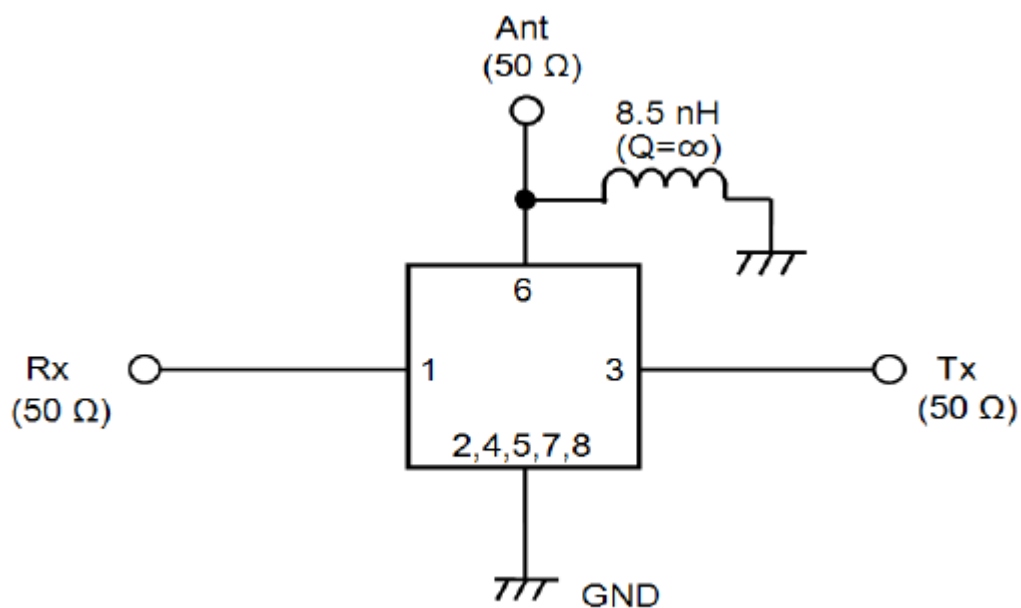
Item	Unit	Min.	Typ.	Max.
Insertion Loss (1495.9~1510.9 MHz)	dB(*1)	-	1.3	1.9
Amplitude Ripple (1495.9~1510.9 MHz)	dB	-	0.3	1.1
VSWR Ant (1495.9~1510.9 MHz)	-	-	1.4	2.1
VSWR Rx (1495.9~1510.9 MHz)	-	-	1.4	2.1
Attenuation (Reference level from 0 dB)				
1447.9 ~ 1462.9 MHz	dB	52	58	-
2400 ~ 2500 MHz	dB	38	42	-
2991.8 ~ 3021.8 MHz	dB	40	45	-
4487.7 ~ 4532.7 MHz	dB	45	53	-

Tx to Rx

Item	Unit	Min.	Typ.	Max.	Note
Isolation (Reference level from 0 dB)	1447.9 ~ 1462.9 MHz	dB	55	60	-
	1495.9 ~ 1510.9 MHz	dB	54	60	-40~+65 °C
		dB	53	-	+65~+85 °C

(*1) Specification of insertion loss excludes loss that comes from test board.

MEASUREMENT CIRCUIT:



1 to 8: Pin No.



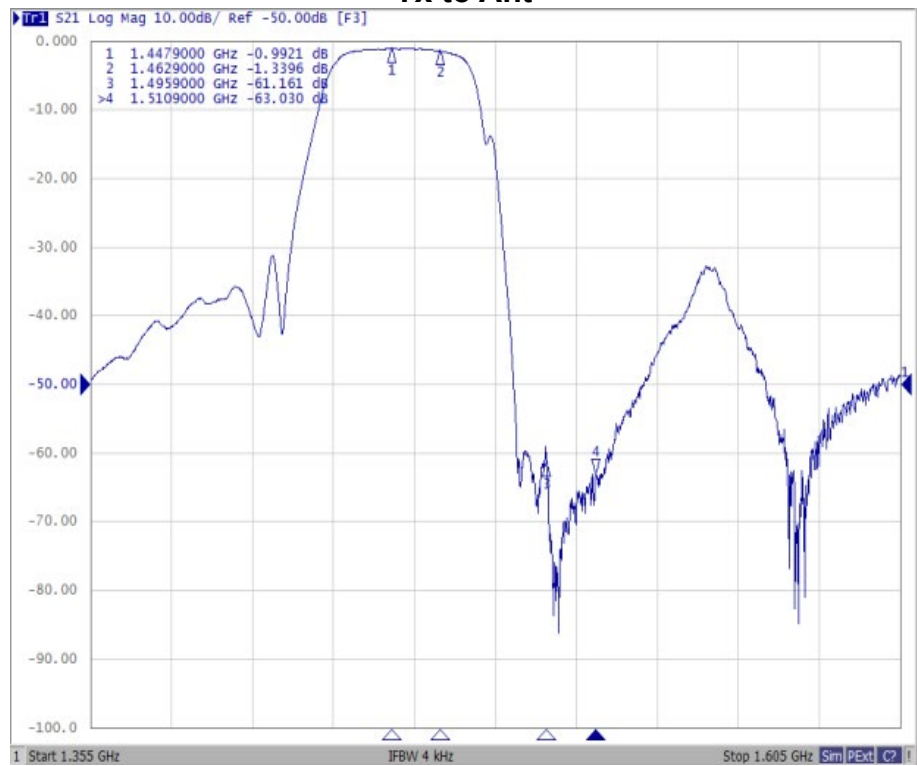
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

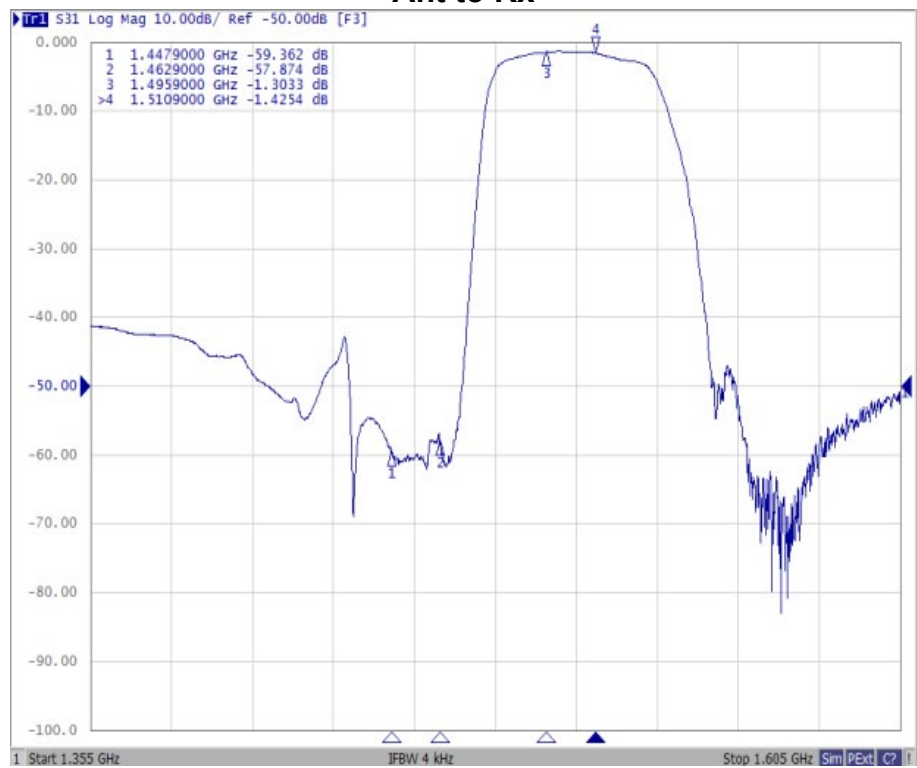
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

FREQUENCY CHARACTERISTICS:

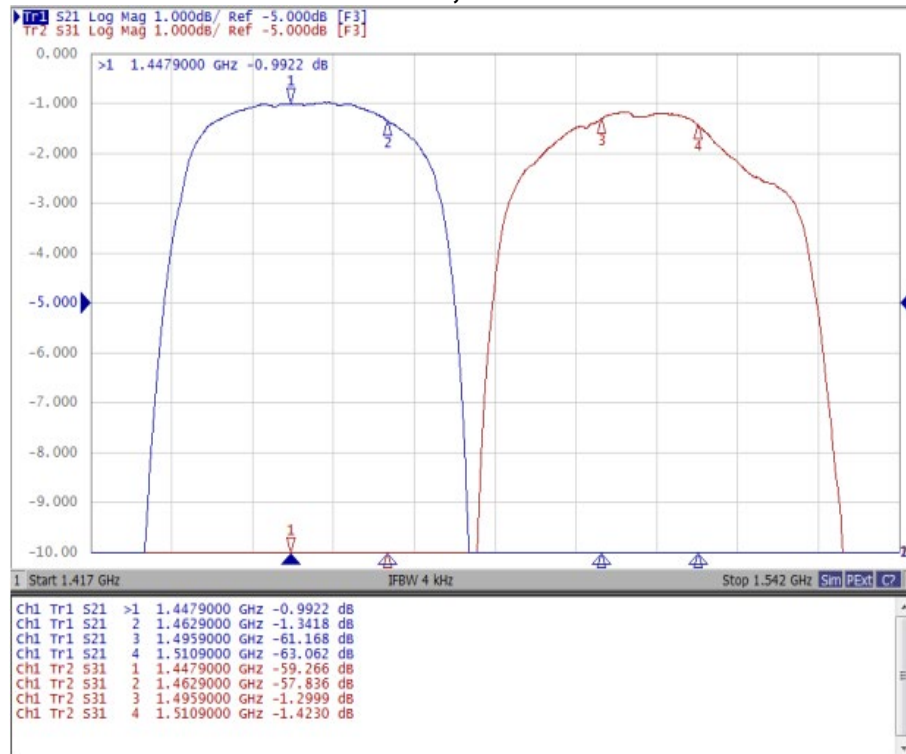
Tx to Ant



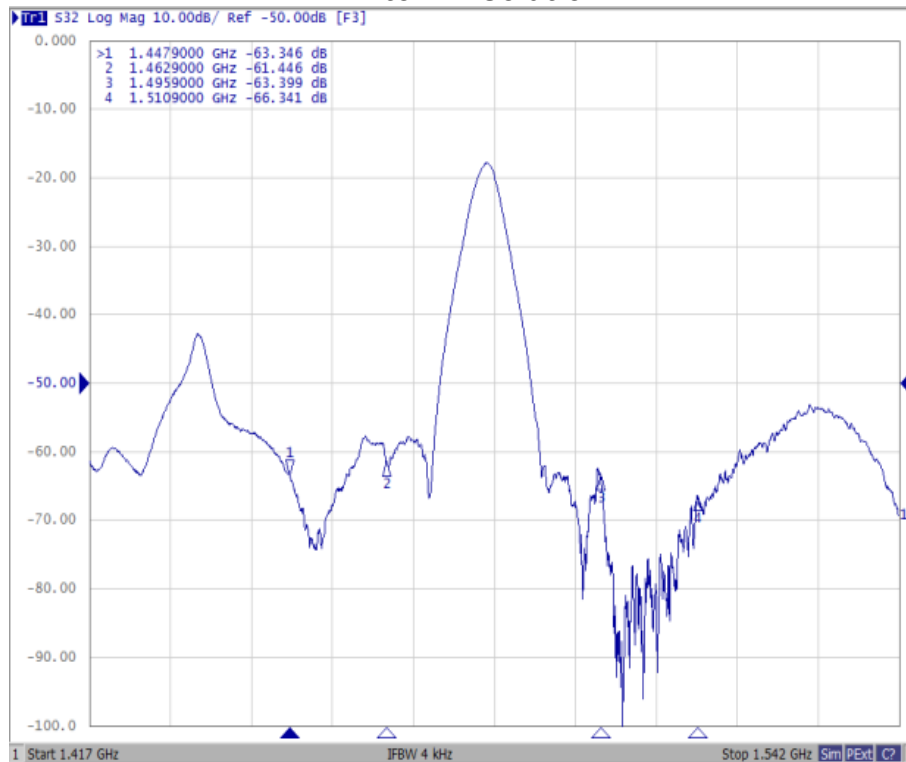
Ant to Rx



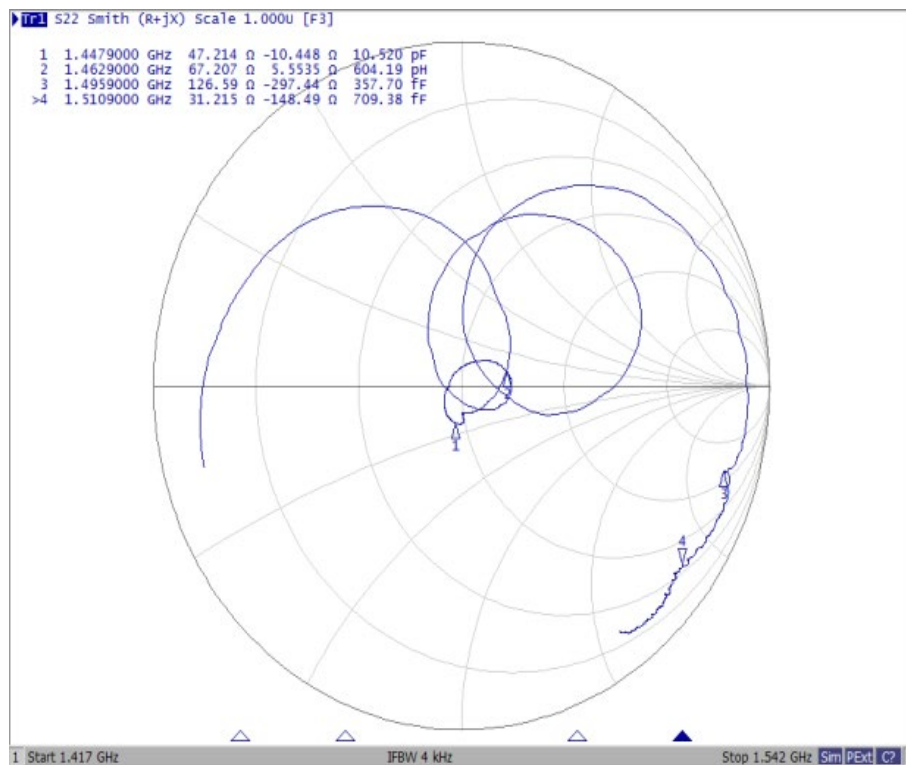
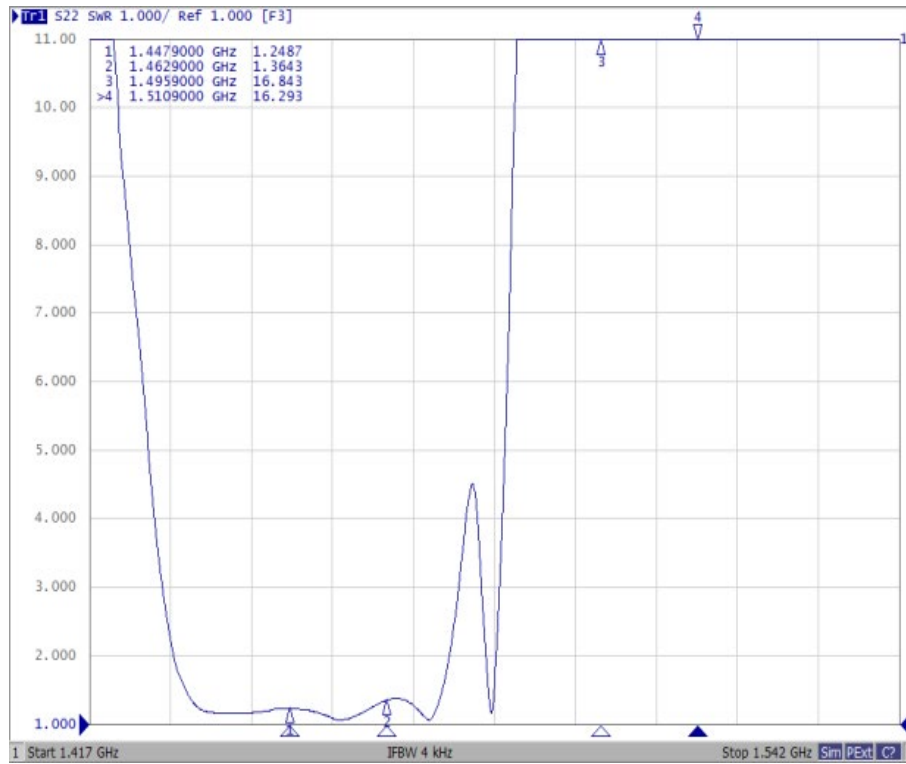
Tx to Ant, Ant to Rx



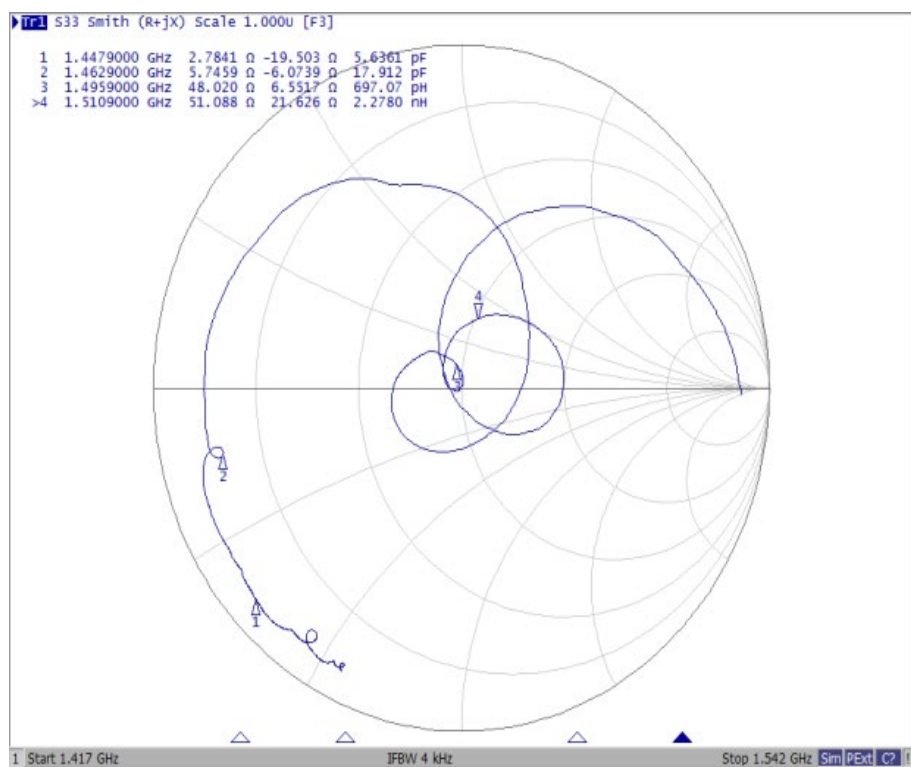
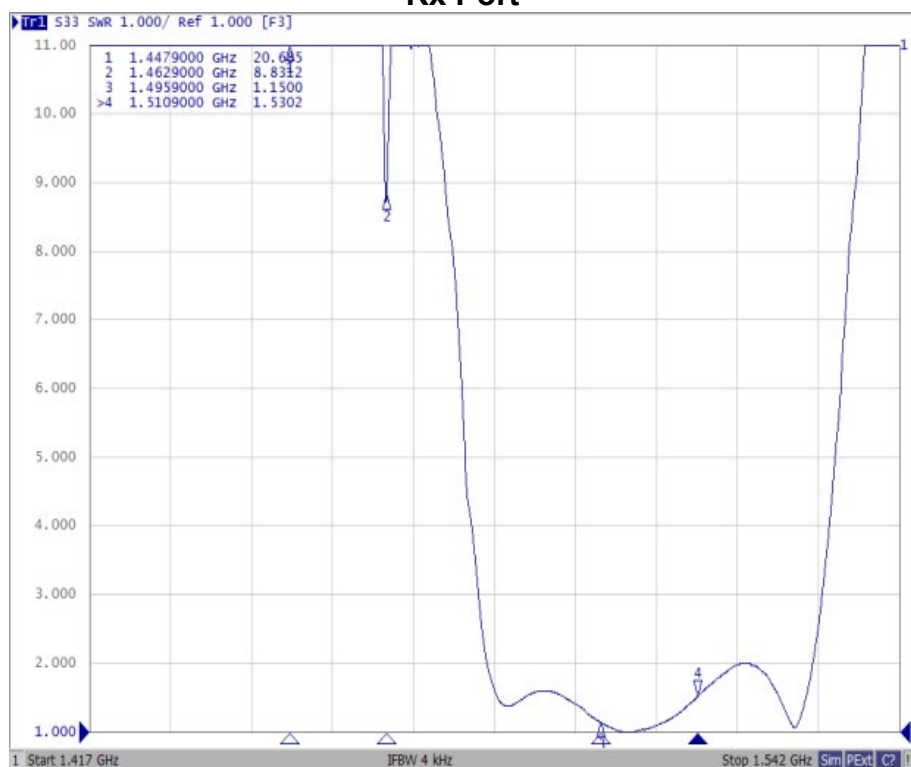
Tx to Rx Isolation



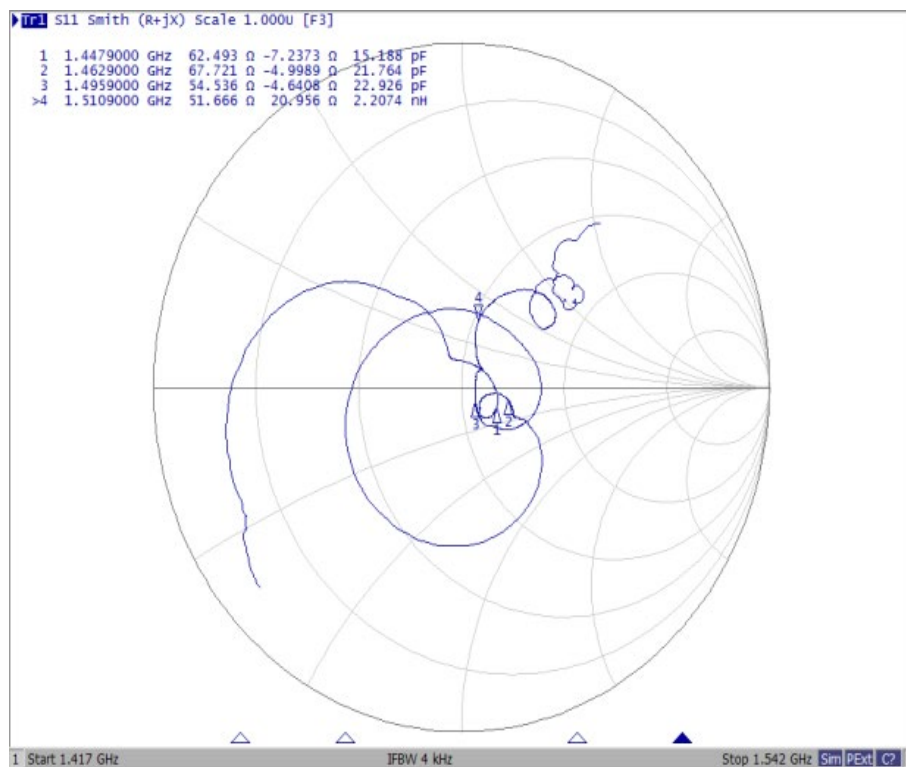
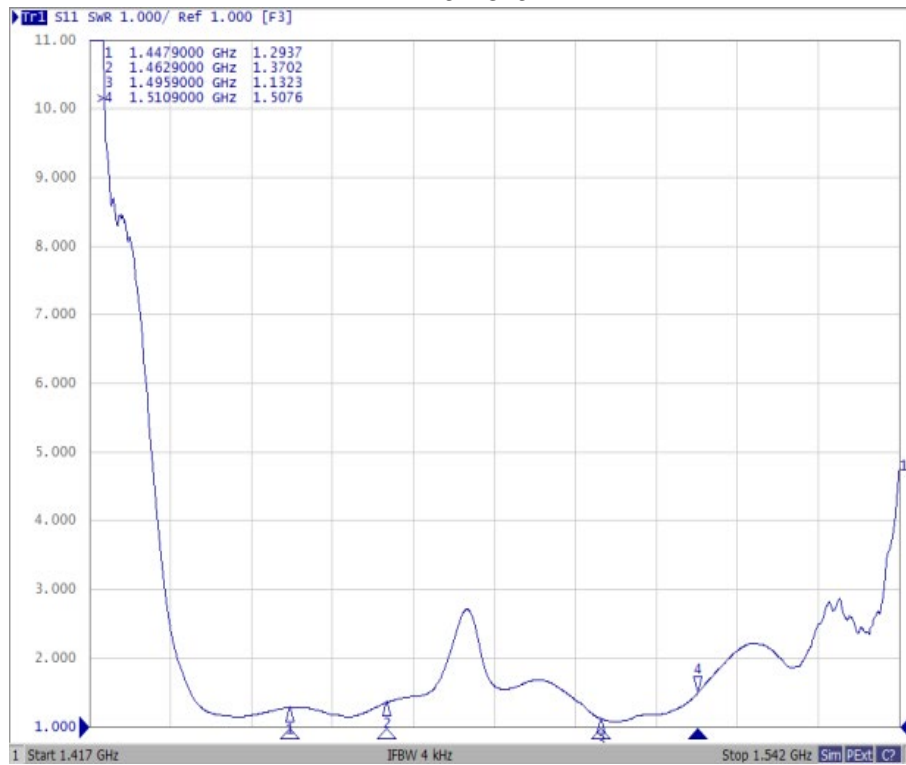
Tx Port



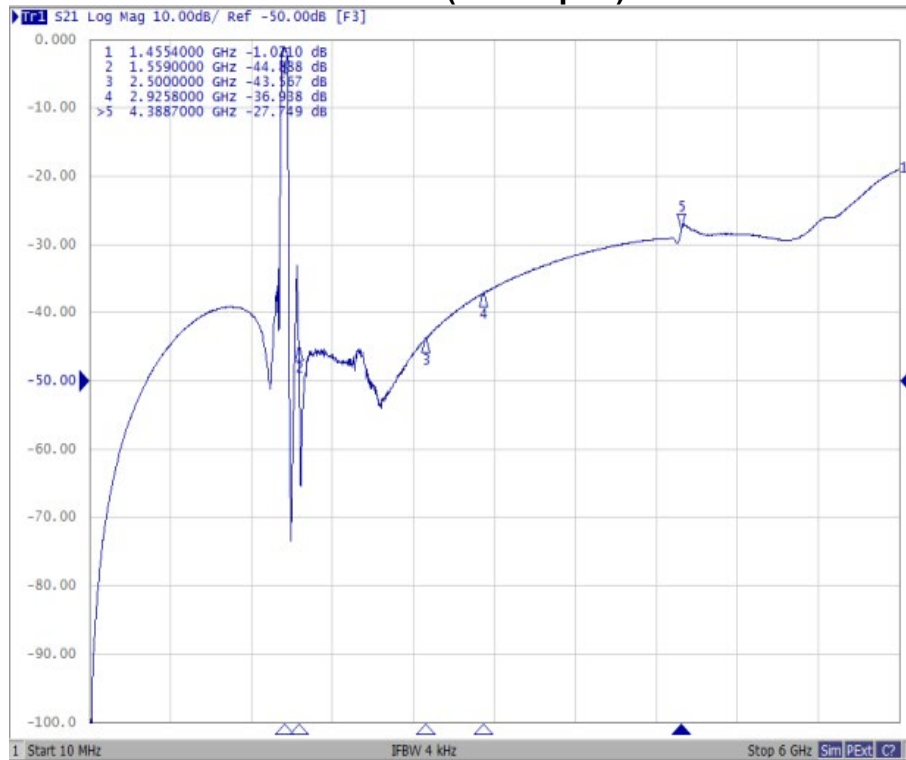
Rx Port



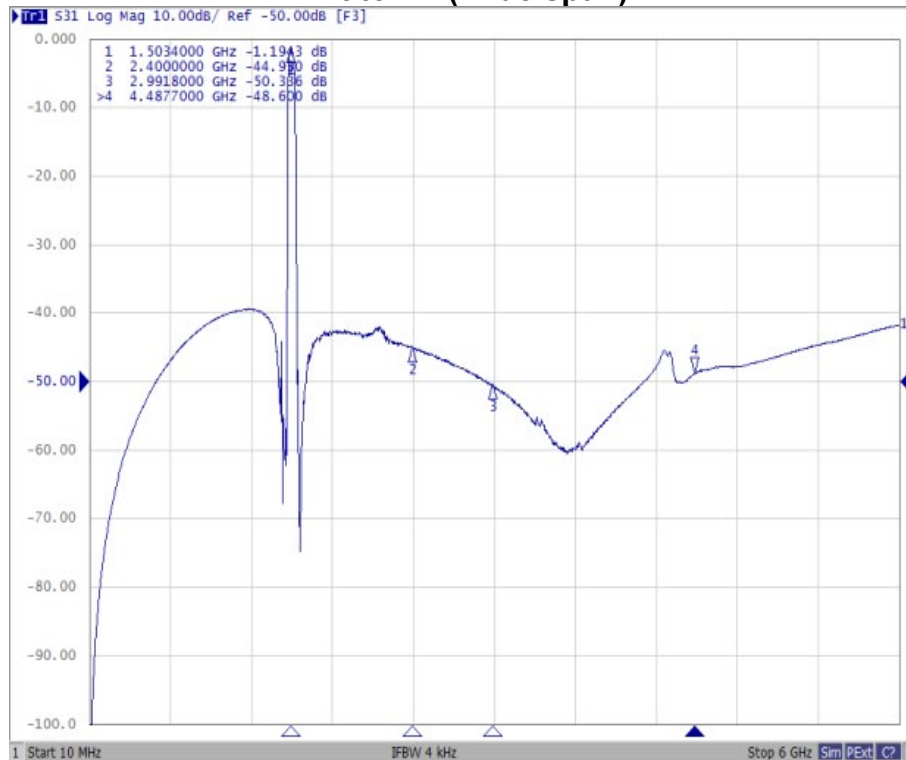
Ant Port



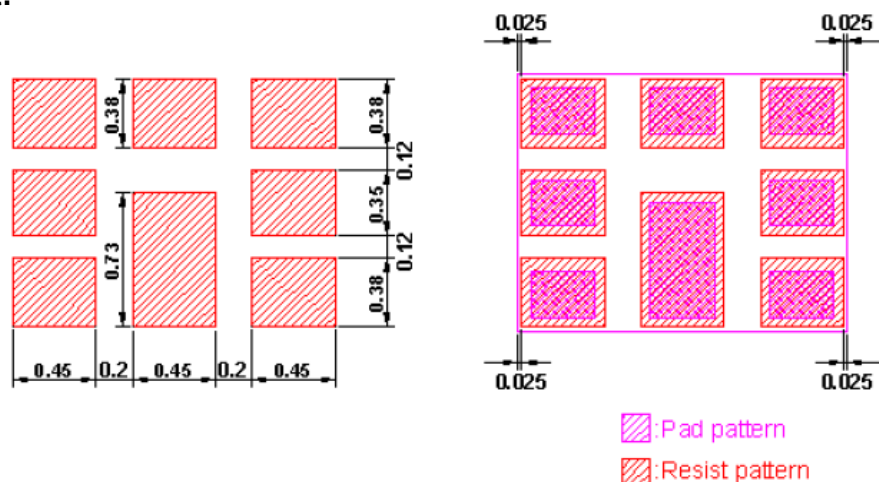
Tx to Ant (Wide span)



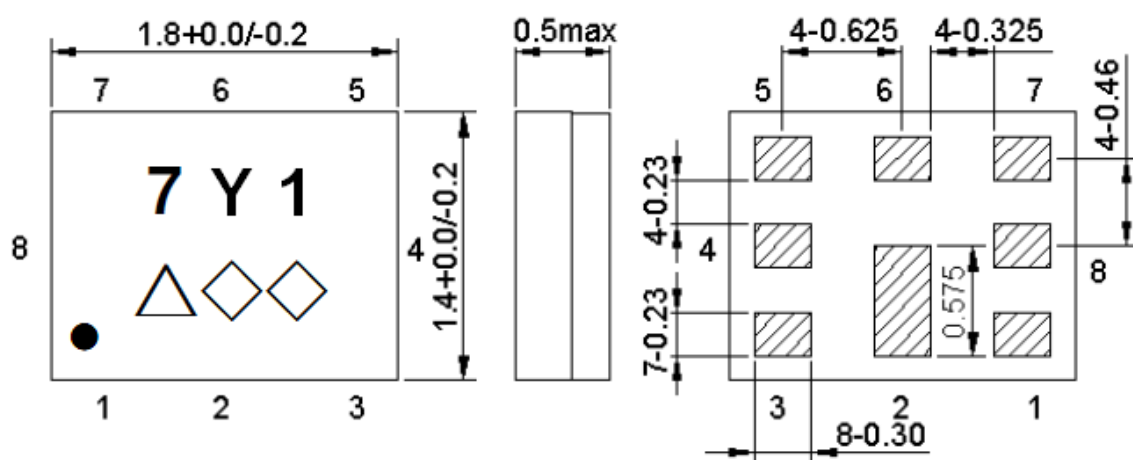
Ant to Rx (Wide span)



PCB Footprint:



OUTLINE DRAWING:



Marking name: 7Y1

△: Date Code (Follow below table)

◇◇: Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

Date Code table:

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
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
2020	n	p	q	r	s	t	u	v	w	x	y	z

Pin Assignment

Pin No.	Pin name	Description
1	Rx	Receiver
2	GND	Ground
3	Tx	Transmitter
4	GND	Ground
5	GND	Ground
6	ANT	Antenna
7	GND	Ground
8	GND	Ground

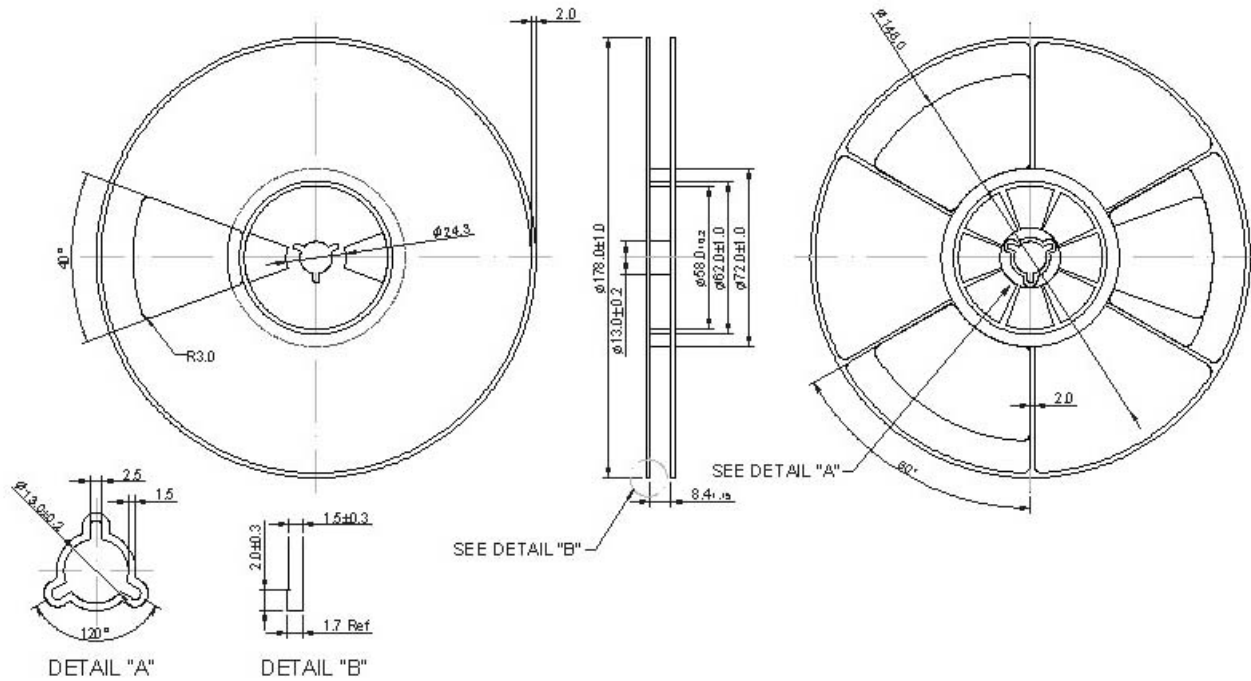
PACKING:

REEL DIMENSION

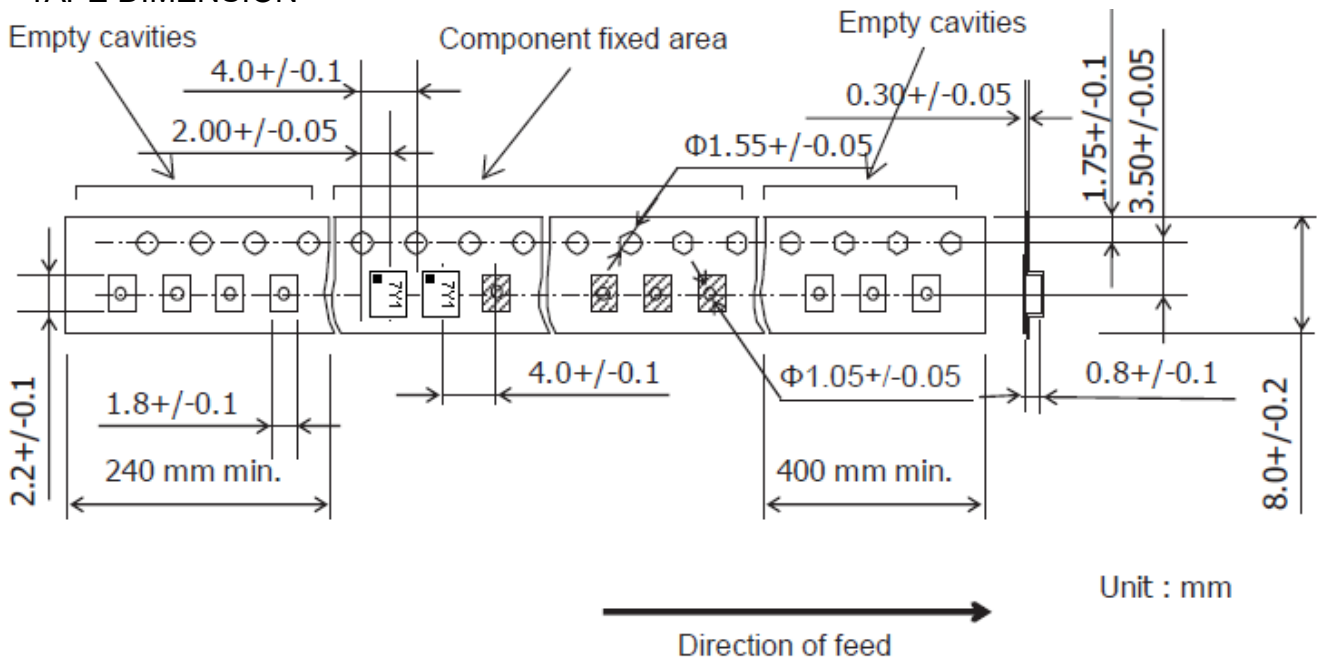
Reel Count:

7" = 3000

13" = 10,000



TAPE DIMENSION



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 260°C+0/-5°C peak (20~40sec).
4. Time: 2 times.

