



DATASHEET -Preliminary-

Surface Acoustic Wave Filter

- **Application : LTE BAND 7 DPX**
- **Model : SFXG35EYN02**
- **Center Frequency : 2535 / 2655 [MHz]**



WISOL CO., LTD.

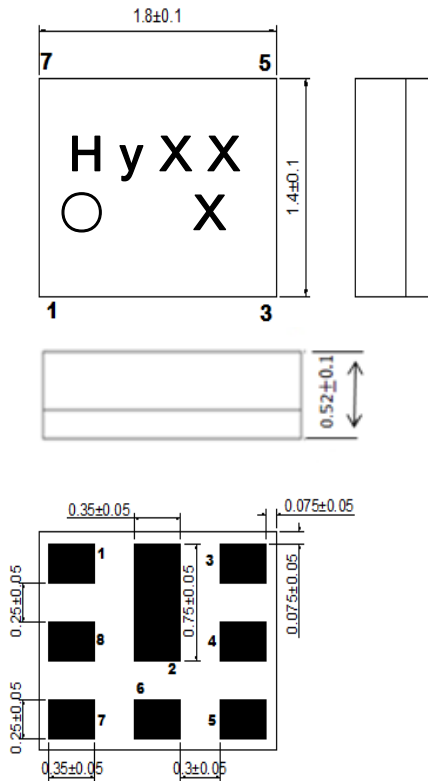
531-7, Gajang-ro, Osan-si,
Gyeonggi-do, 18103

<http://www.wisol.co.kr>

E-mail: sales@wisol.co.kr

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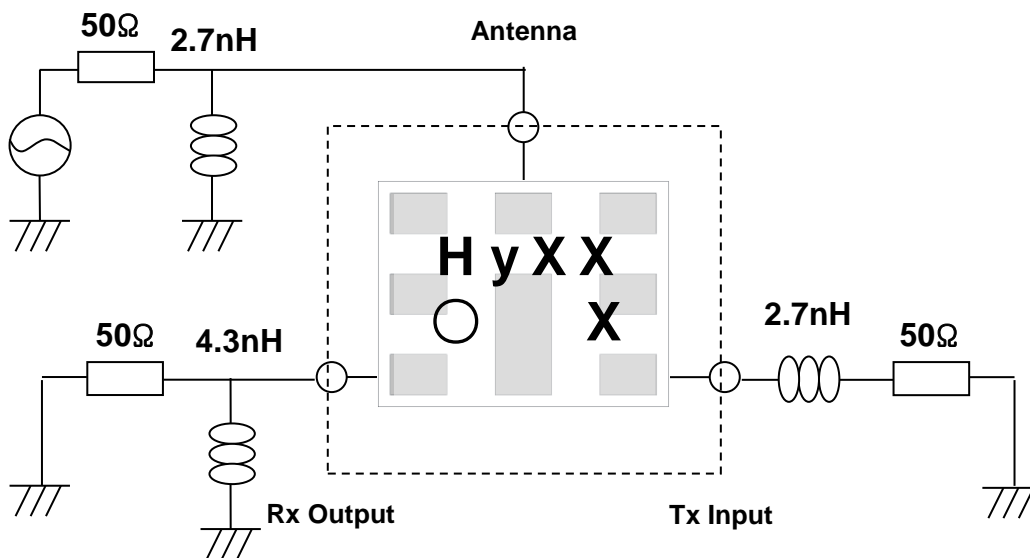
1. OUTLINE DRAWING & RECOMMENDED PCB



No.	Function
1	Rx Output
3	Tx Input
6	Antenna
2, 4, 5, 7, 8	GND

[Unit: mm]

2. TEST FIXTURE



< Top View >

3. PERFORMANCE

3-1. MAXIMUM RATINGS

CHARACTERISTICS	RATINGS	UNITS	NOTES
DC Permissive Voltage	5	V	
Maximum Input Power	+30	dBm	CW, 55°C, 5000hr
Operating Temperature Range	-20 ~ +85	°C	
Storage Temperature Range	-40 ~ +85	°C	

3-2. ELECTRICAL CHARACTERISTICS

3-2-1. TABLE

Ta = -20 ~ +85°C

(*1) PCB loss is de-embedded.

(*2) Valid at room temperature.

(*3) Integrated attenuation per 4.5MHz

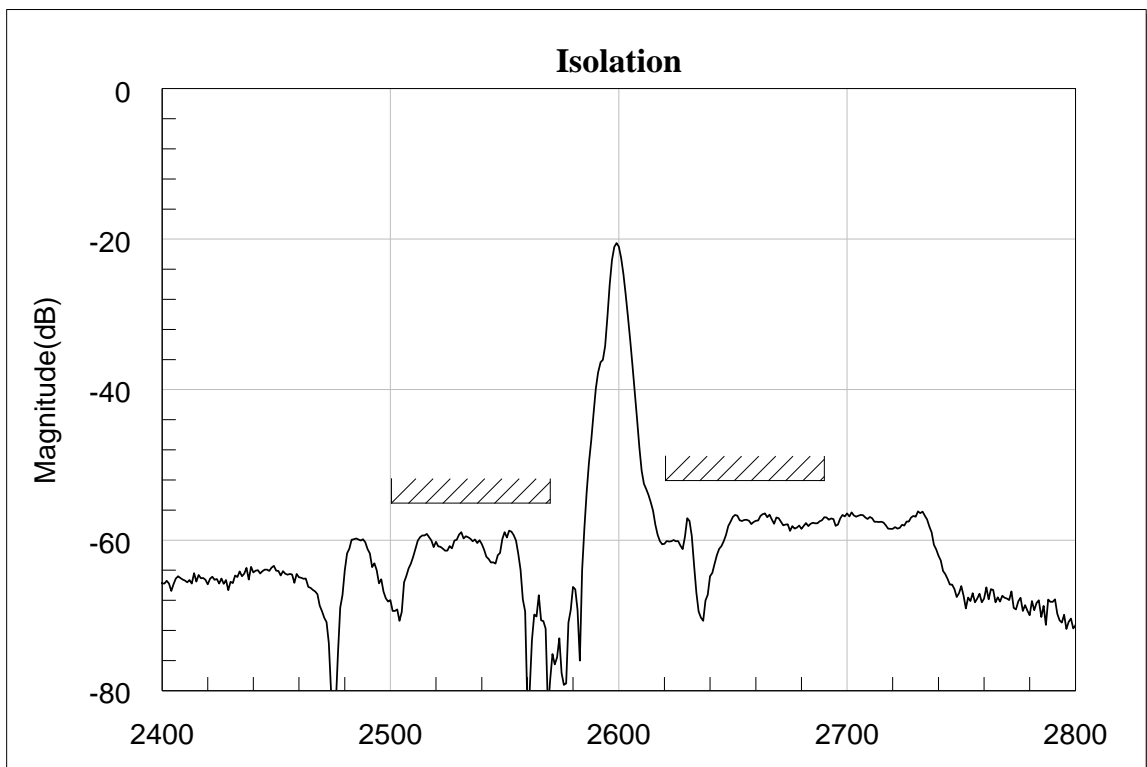
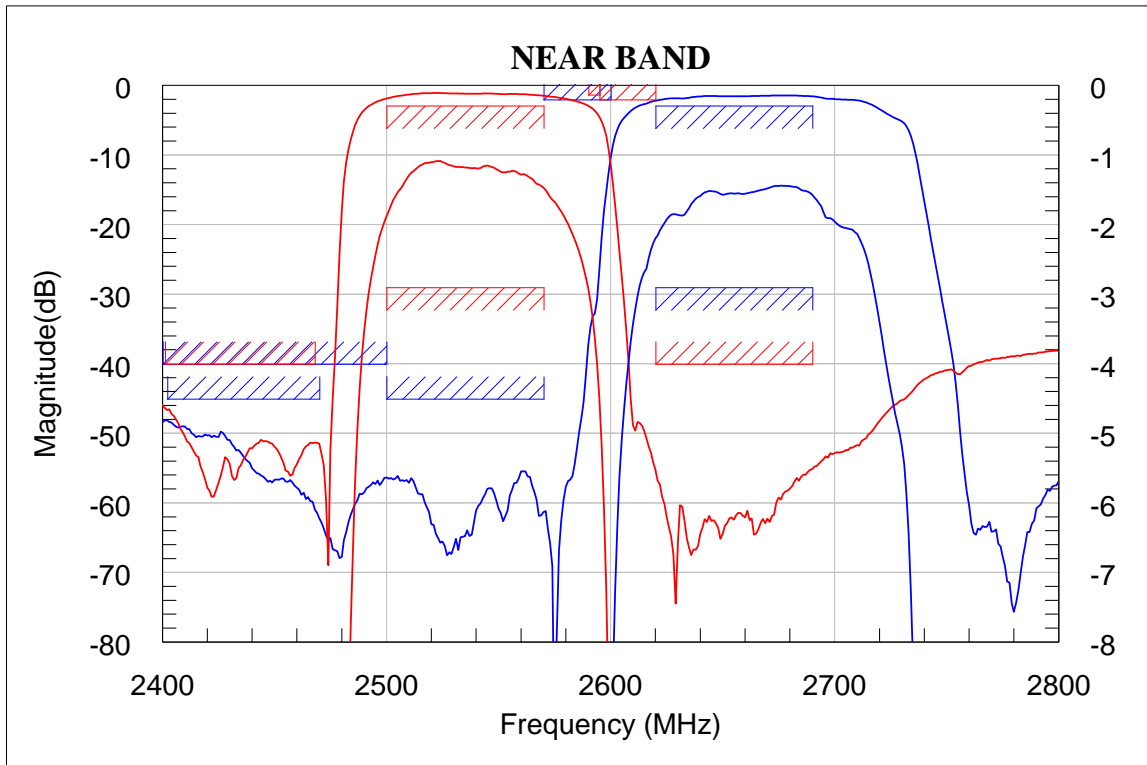
(*4) Integrated attenuation per 18MHz

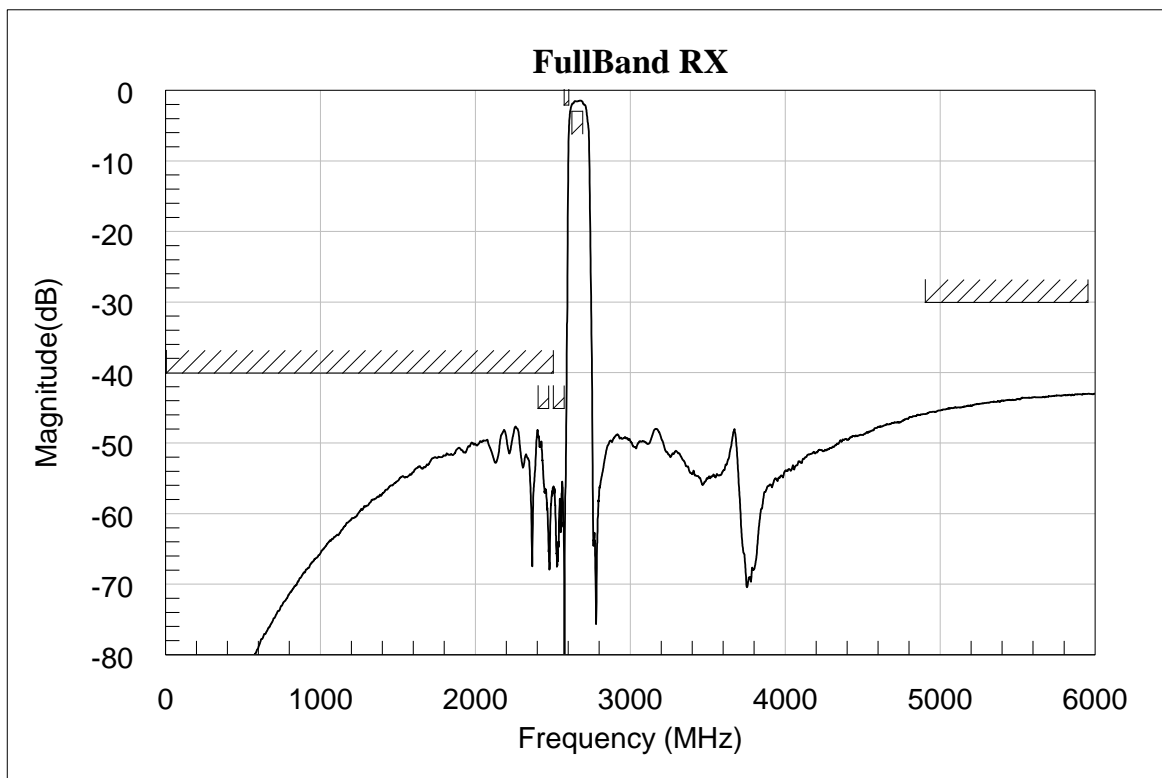
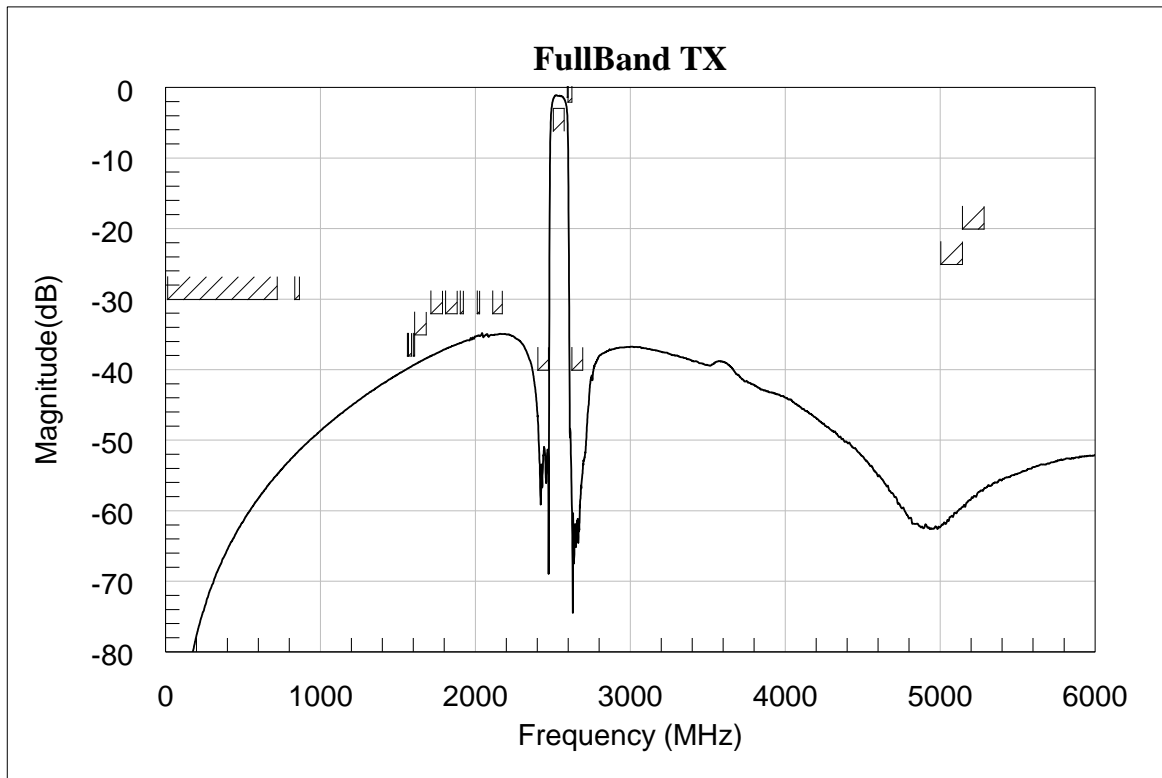
Item	CONDITION [MHz]	UNIT	RATING		
			Min.	Typ.(25°C)	Max.
TX → ANTENNA					
Insertion Loss	2500 ~ 2570 (*1)	dB	-	2.0	2.9
	2500 ~ 2570 (*1)(*2)	dB	-	2.0	2.7
	2502.5 ~ 2567.5 (*1)(*2) (*3)	dB _{INT}	-	1.8	2.8
Inband Ripple	2500.25 ~ 2569.75	dB	-	0.9	2.0
Ant VSWR	2500.25 ~ 2569.75	-	-	1.5	2.1
TX VSWR	2500.25 ~ 2569.75	-	-	1.5	2.1
Absolute Attenuation	10 ~ 718	dB	30	55	-
	832 ~ 862	dB	30	51	-
	1559 ~ 1563	dB	38	40	-
	1565.42 ~ 1573.37	dB	38	40	-
	1573.37 ~ 1577.47	dB	38	40	-
	1577.47 ~ 1585.42	dB	38	40	-
	1597.55 ~ 1605.89	dB	38	40	-
	1605.89 ~ 1680.0	dB	35	39	-
	1710.0 ~ 1785.0	dB	32	38	-
	1805.0 ~ 1880.0	dB	32	37	-
	1900.0 ~ 1920.0	dB	32	36	-

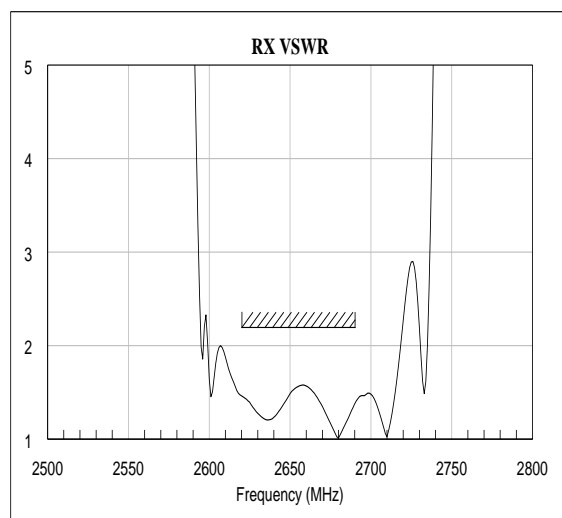
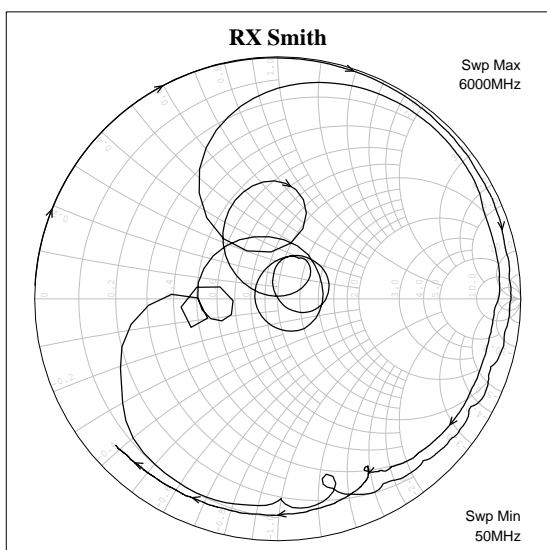
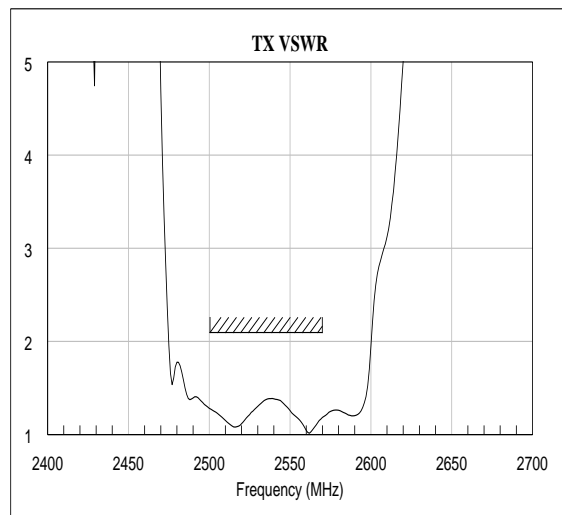
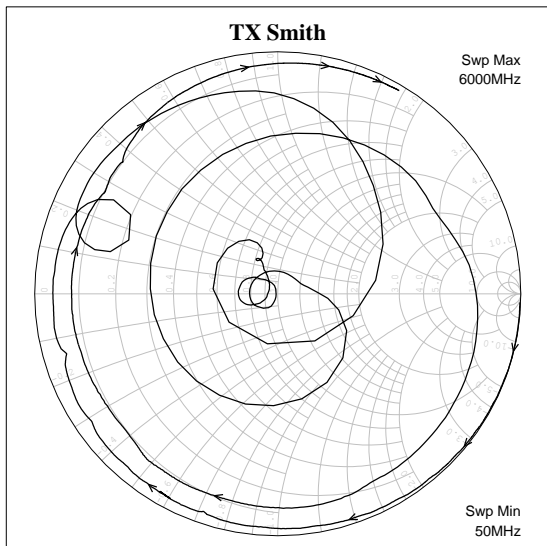
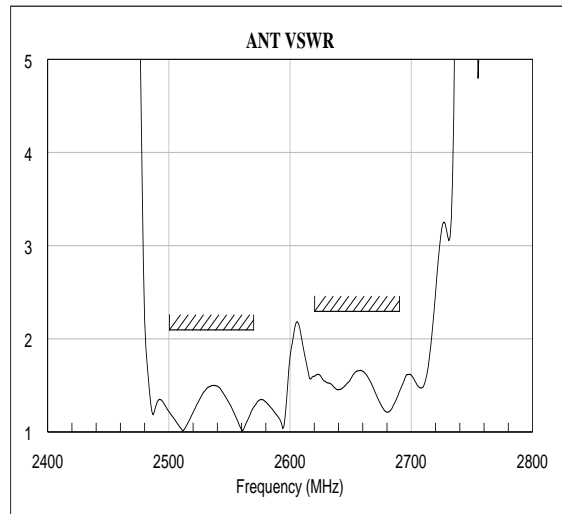
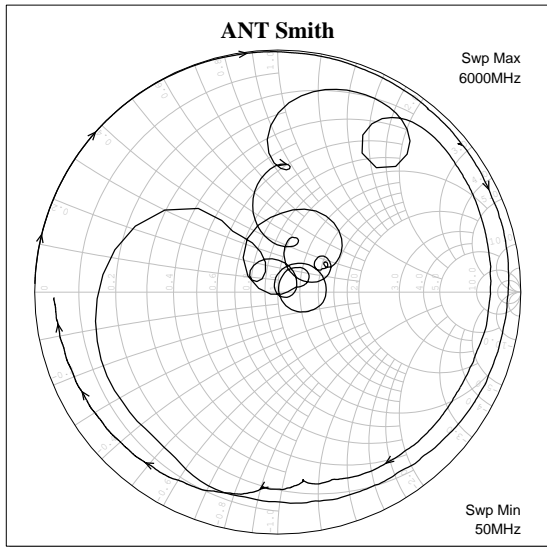
	2010.0 ~ 2025.0	dB	32	35	-
	2110.0 ~ 2170.0	dB	32	35	-
	2401.0 ~ 2468.0 (*4)	dB _{INT}	40	50	-
	2451.0 ~ 2473.0 (*4)	dB _{INT}	30	52	-
	2456.0 ~ 2478.0 (*4)	dB _{INT}	15	52	-
	2461.0 ~ 2483.0 (*4)	dB _{INT}	7	37	-
	2401.0 ~ 2468.0 (*2)(*4)	dB _{INT}	40	50	-
	2451.0 ~ 2473.0 (*2)(*4)	dB _{INT}	40	52	-
	2456.0 ~ 2478.0 (*2)(*4)	dB _{INT}	20	52	-
	2461.0 ~ 2483.0 (*2)(*4)	dB _{INT}	7	37	-
	2590.0 ~ 2595.0	dB	1.3	3	-
	2595.0 ~ 2620.0	dB	2	5	-
	2620.0 ~ 2690.0	dB	40	55	-
	2620.0 ~ 2690.0 (*2)	dB	45	55	-
	5000.0 ~ 5140.0	dB	25	61	-
	5140.0 ~ 5280.0	dB	20	58	-
Termination Impedance : INPUT / ANTENNA			50Ω(+2.7nH) / 50Ω(// 2.7nH)		
ANTENNA → RX					
Insertion Loss	2620 ~ 2690 (*1)	dB	-	2.2	2.9
	2620 ~ 2690 (*1)(*2)	dB	-	2.2	2.7
	2622.5 ~ 2687.5 (*1)(*2)(*3)	dB _{INT}	-	2.1	2.8
Inband Ripple	2620 ~ 2690	dB	-	0.8	1.8
Ant VSWR	2620 ~ 2690	-	-	1.7	2.3
RX VSWR	2620 ~ 2690	-	-	1.6	2.2
Absolute Attenuation	1.0 ~ 2500.0	dB	40	48	-
	2402.0 ~ 2470.0	dB	45	48	-
	2500.0 ~ 2570.0	dB	45	55	-
	2570.0 ~ 2600.0	dB	2	7	-
	4900.0 ~ 5950.0	dB	30	42	-
Termination Impedance : ANTENNA / OUTPUT			50Ω (//2.7nH) /50Ω(//4.3nH)		
TX → RX					
Isolation between Rx and Tx	2500.25 ~ 2569.75	dB	55	58	-
	2500.25 ~ 2569.75 (*2)	dB	55	58	-
	2502.5 ~ 2567.5 (*3)	dB _{INT}	55	58	-

	2620.25 ~ 2689.75	dB	52	57	-
	2620.25 ~ 2689.75 (*2)	dB	55	57	-
	2622.5 ~ 2687.5 (*3)	dB _{INT}	55	57	-

3-2-2 GRAPH

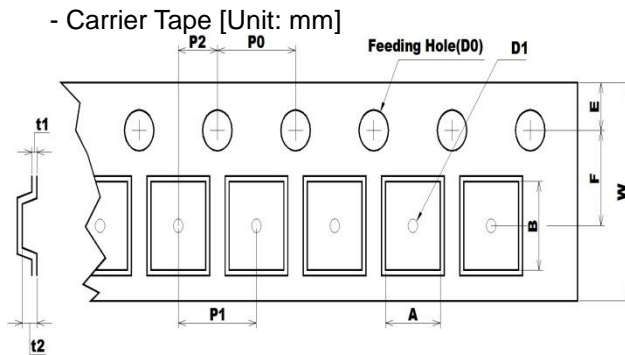






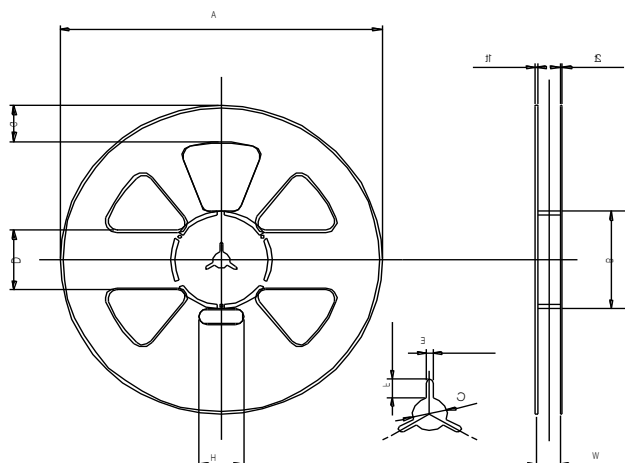
4. PACKING

4-1. DIMENSIONS



A	B	D0	D1
1.60 +0.05 -0.05	2.00 +0.05 -0.05	Ø1.55 +0.05 -0.05	Ø1.00 MIN
E	F	P0	P1
1.75 +0.10 -0.10	3.50 +0.05 -0.05	4.00 +0.10 -0.10	4.00 +0.10 -0.10
P2	t1	t2	W
2.00 +0.05 -0.05	0.25 +0.05 -0.05	0.80 +0.05 -0.05	8 +0.10 -0.10

- Reel [Unit: mm]



A	B	C	D
Ø258.0 +1.0 -0.5	Ø81.0 +1.0 -1.0	Ø13.0 +0.5 -0.5	50.0 +0.8 -0.8
E	F	G	H
2.2 +0.3 -0.3	7.0 +0.5 -0.5	30.0 +0.8 -0.8	35.0 +1.0 -1.0
t1	t2	W	
1.8 +0.5 -0.5	1.5 +0.5 -0.5	9.0 +1.0 -0.5	

- The product shall be packed properly not to be damaged during transportation and storage.

4-2. REELING QUANTITY

10 inch reel : 8,000 pcs/reel

4-3. TAPING STRUCTURE

11-3-1. The tape shall be wound around the reel in direction shown below.

