



DATASHEET -Preliminary-

Surface Acoustic Wave Filter

- **Application : LTE Band 26 Duplexer**
- **Model : SFX831AYJ02**
- **Center Frequency : 831.5 / 876.5 [MHz]**



WISOL CO., LTD.

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

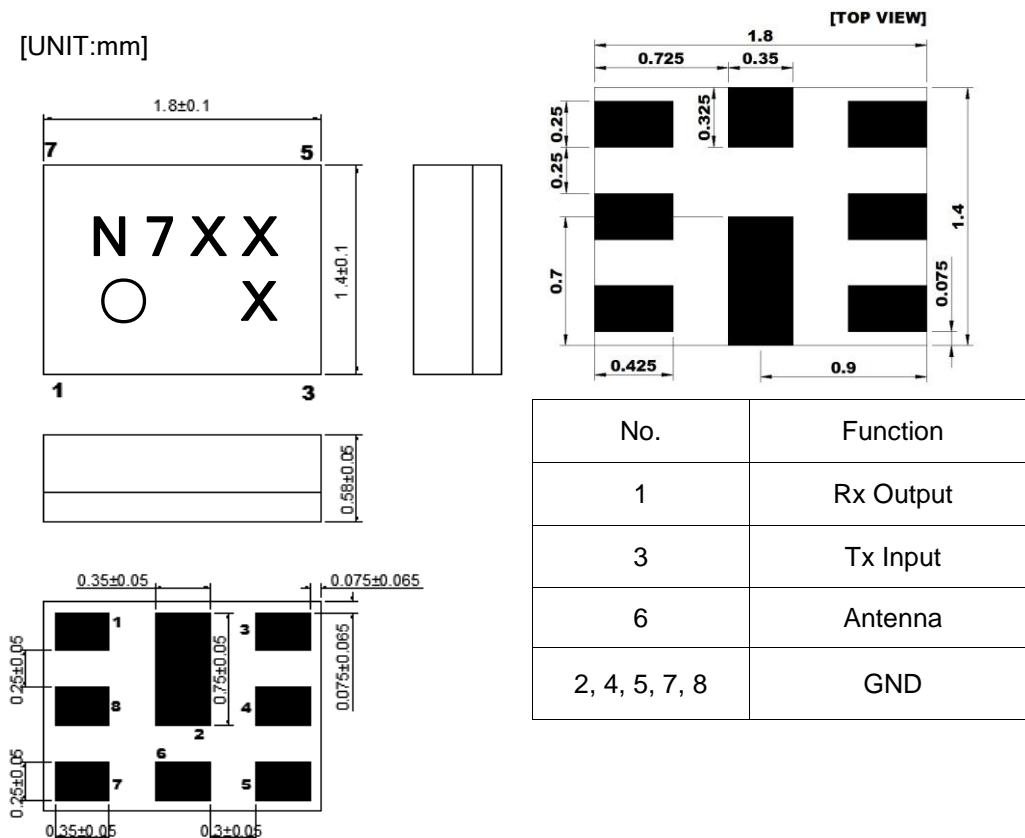
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1. OUTLINE DRAWING & RECOMMENDED PCB

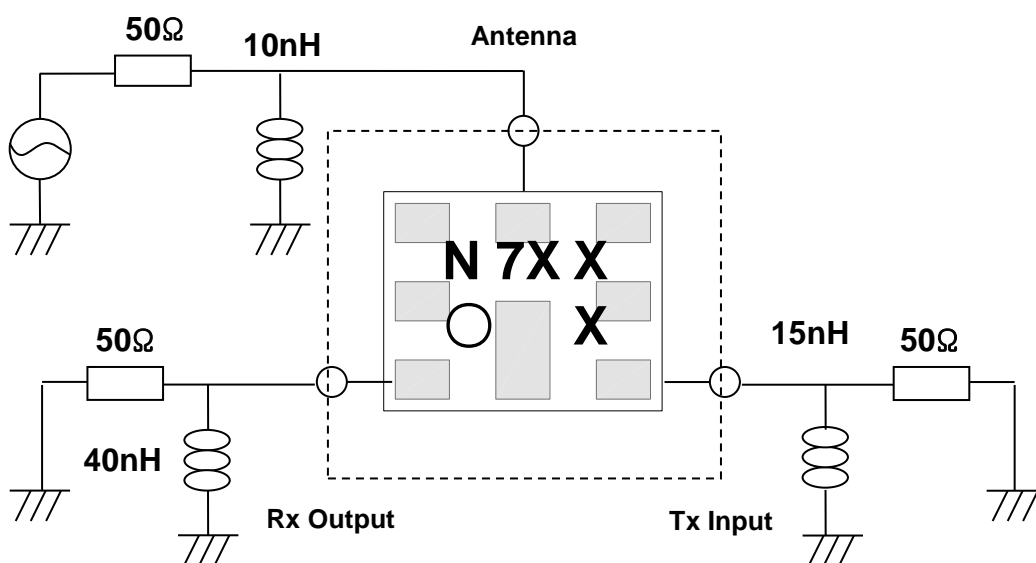
< Outline Drawing >

[UNIT:mm]



[Unit: mm]

2. TEST FIXTURE



< Top View >

3. PERFORMANCE

3-1. MAXIMUM RATINGS

CHARACTERISTICS	RATINGS	UNITS
DC Permissive Voltage	5	V
Maximum Input Power	0.8	W
Operating Temperature Range	-20~ +85	°C
Storage Temperature Range	-40 ~ +85	°C

3-2. ELECTRICAL CHARACTERISTICS

3-2-1. TABLE

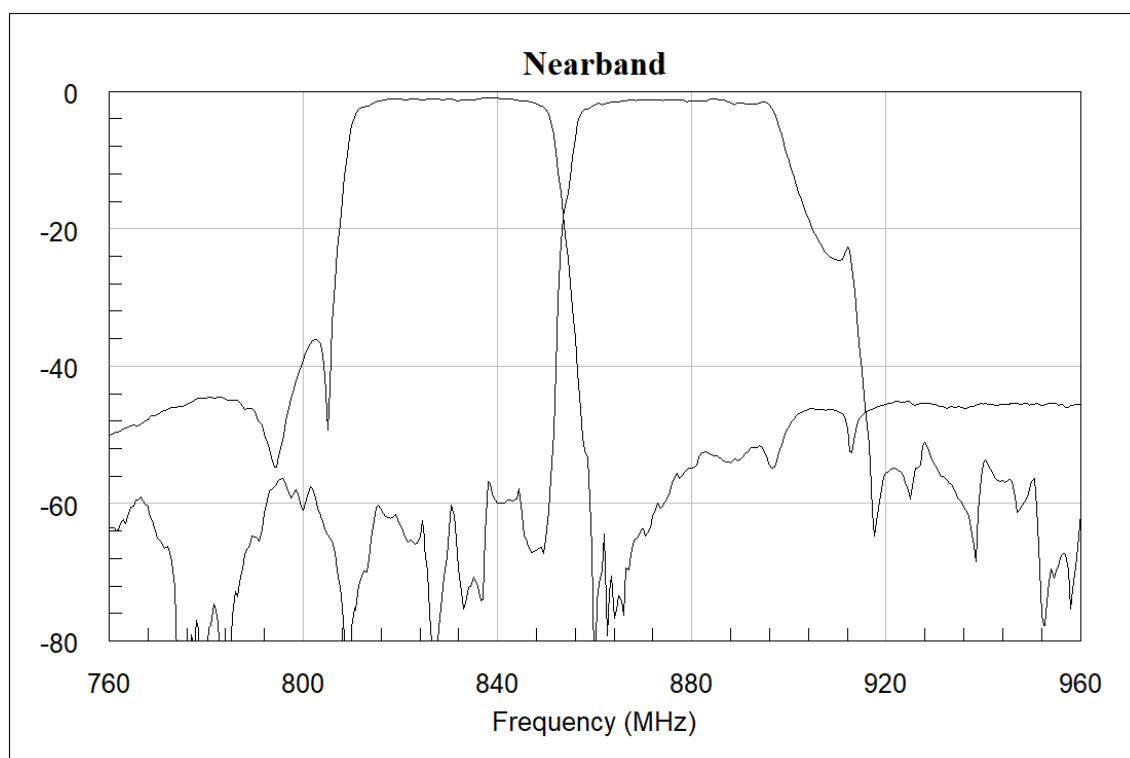
Ta = -20 ~ +85°C

Item	CONDITION [MHz]	UNIT	RATING		
			Min.	Typ.(25°C)	Max.
TX → ANTENNA					
Insertion Loss	814.25 ~ 848.75	dB	-	2.0	3.0
Inband Ripple	814.25 ~ 848.75	dB	-	1.0	2.3
VSWR	814.25 ~ 848.75	-	-	1.8	2.4
Absolute Attenuation	10 ~ 420	dB	30	43	-
	420~ 494	dB	30	41	-
	494 ~ 701	dB	20	40	-
	859.25 ~893.75	dB	44	52	-
	1559 ~ 1563	dB	35	40	-
	1565.42 ~ 1605.89	dB	35	39	-
	1628 ~ 1698	dB	33	38	-
	1930 ~ 1995	dB	31	36	-
	2110 ~ 2170	dB	30	35	-
	2400 ~ 2690	dB	27	32	-
	3256 ~ 3396	dB	26	31	-
	3396 ~ 3800	dB	24	29	-
4070 ~ 4245	dB	20	25	-	
4884 ~ 5950	dB	8	13	-	
Termination Impedance : INPUT / ANTENNA			50Ω //15[nH] /50Ω // 10[nH]		
ANTENNA → RX					
Insertion Loss	859.25 ~893.75	dB	-	2.4	3.5
Inband Ripple	859.25 ~893.75	dB	-	1.2	2.5
VSWR	859.25 ~893.75	-	-	2.0	2.5
Absolute Attenuation	10 ~ 447	dB	40	68	-

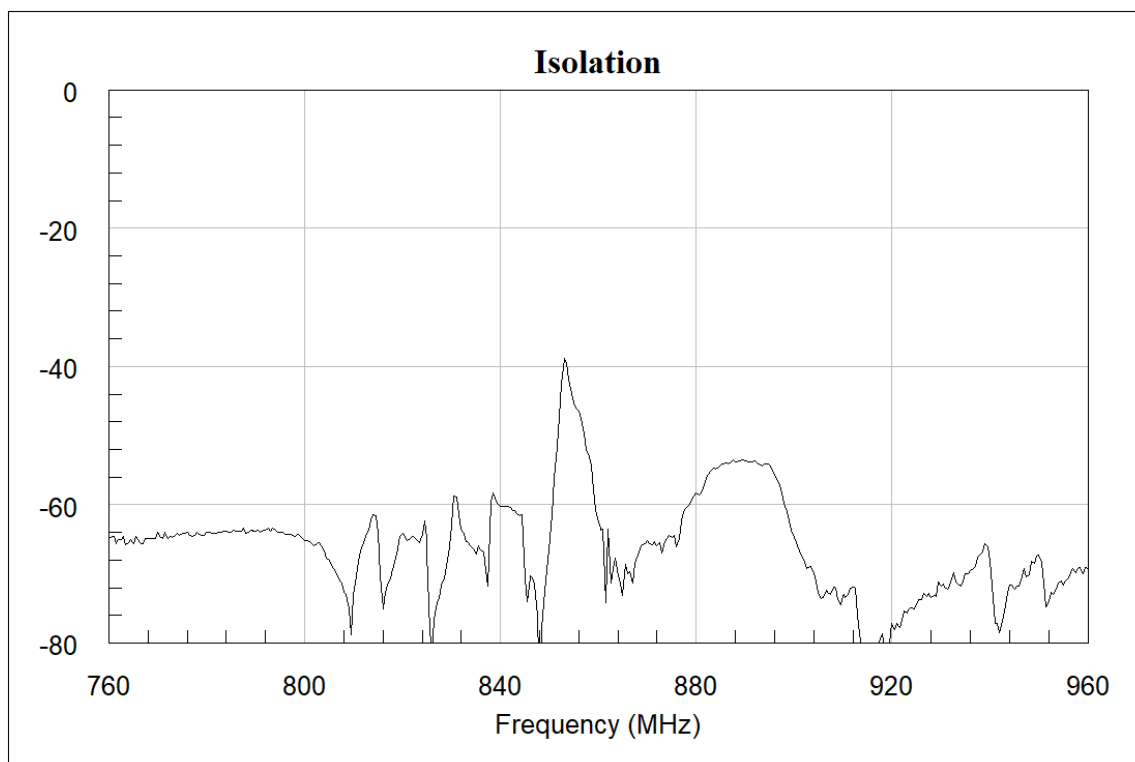
	814.25 ~ 848.75	dB	45	57	-
	849 ~ 854	dB	3	15	-
	909 ~ 979	dB	15	23	-
	1427 ~ 1447	dB	40	68	-
	1710 ~ 1785	dB	50	60	-
	1850 ~ 1915	dB	50	59	-
	1920 ~ 1980	dB	40	59	-
	2400 ~ 2500	dB	40	57	-
	2467 ~ 2494	dB	50	57	-
	2577 ~ 2682	dB	40	56	-
	4900 ~ 5950	dB	30	45	-
Termination Impedance : ANTENNA / OUTPUT			50Ω // 10[nH] /50Ω // 40 [nH]		
TX → RX					
Isolation between Rx and Tx	814.25 ~ 848.75	dB	55	59	-
	859.25 ~ 893.75	dB	51	55	-

4. Graph

4-1. Tx→Ant, Ant→Rx Transmission Characteristics



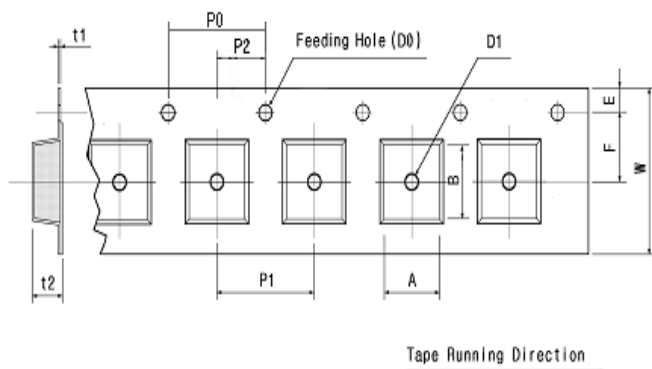
4-2. Tx→Rx Isolation Characteristics



5. PACKING

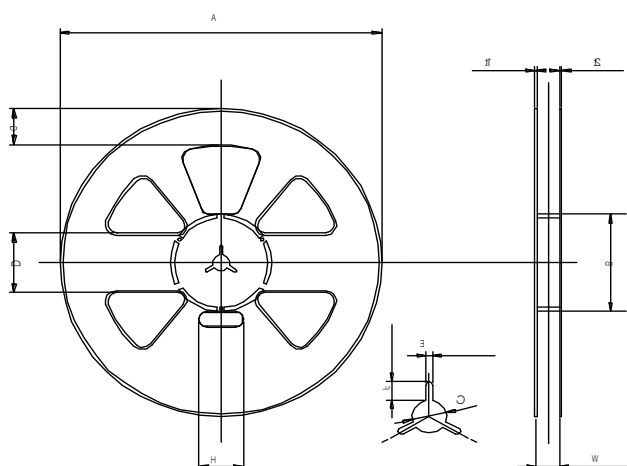
5-1. DIMENSIONS

- Carrier Tape [Unit: mm]



A	B	D0	D1
1.65	2.10	Ø1.50	Ø1.00
+ 0.05	+ 0.05	+ 0.10	+ 0.25
- 0.05	- 0.05	- 0.00	- 0.00
E	F	P0	P1
1.75	3.50	4.00	4.00
+ 0.10	+ 0.05	+ 0.10	+ 0.10
- 0.10	- 0.05	- 0.10	- 0.10
P2	t1	t2	W
2.00	0.254	1.00	8.00
+ 0.05	+ 0.02	+ 0.02	+ 0.30
- 0.05	- 0.02	- 0.02	- 0.10

- Reel [Unit: mm]



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

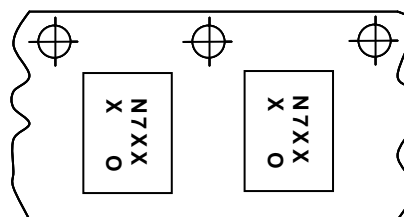
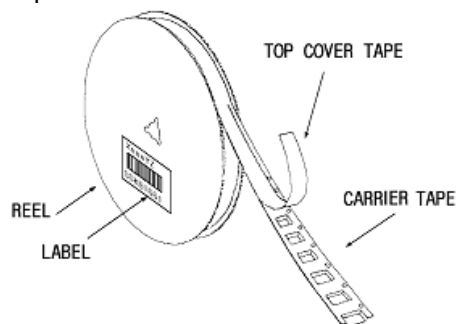
- The product shall be packed properly not to be damaged during transportation and storage.

5-2. REELING QUANTITY

10 inch reel: 8,000 pcs/reel

5-3. TAPING STRUCTURE

The tape shall be wound around the reel in direction shown below.



Tape Running direction

