



DATASHEET

-Preliminary-

Surface Acoustic Wave Filter

- **Application : BAND20 DPX**
- **Model : SFX806BYH02**
- **Center Frequency : 806.0 [MHz]**



WISOL CO., LTD.

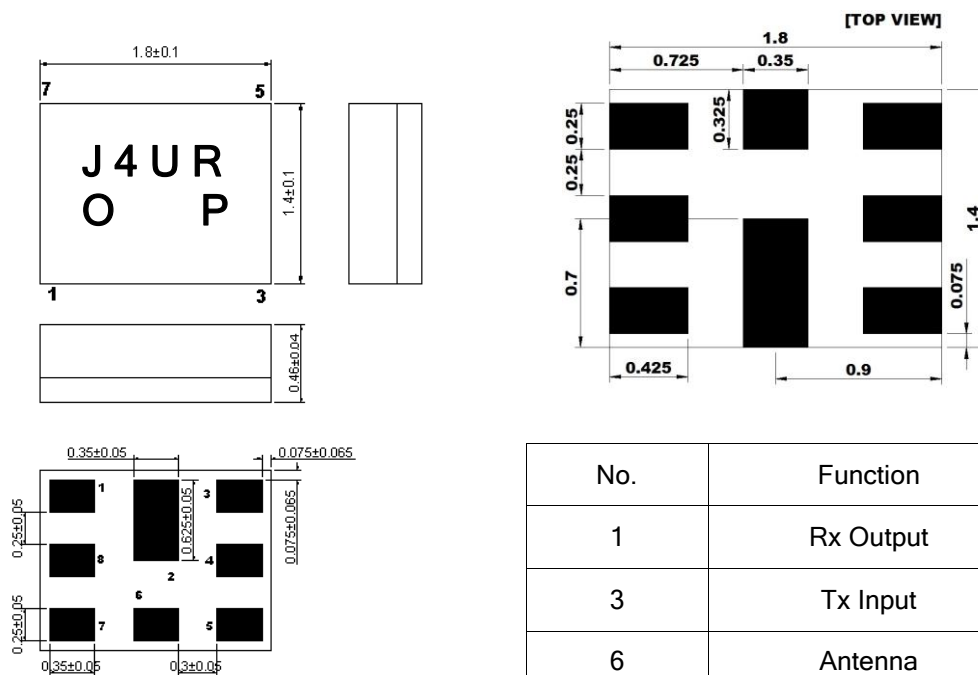
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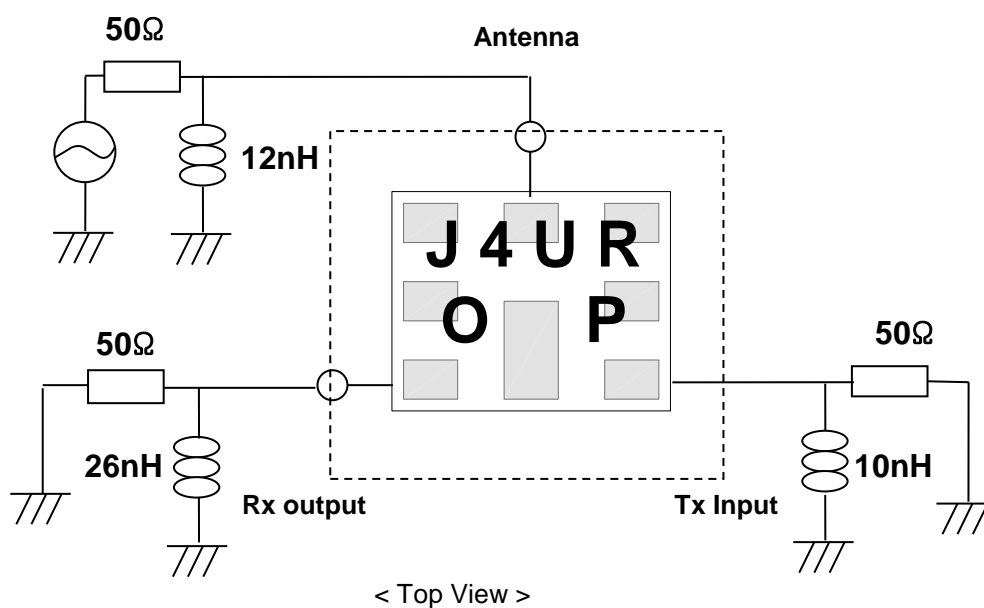
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1. OUTLINE DRAWING & RECOMMENDED PCB

[Unit: mm]



2. TEST FIXTURE



3. PERFORMANCE

3-1. MAXIMUM RATINGS

CHARACTERISTICS	RATINGS	Units
DC Permissive Voltage	5	V
Maximum Input Power	0.8	W
Operating Temperature Range	- 30 ~ + 85	°C
Storage Temperature Range	- 40 ~ + 85	°C

3-2. ELECTRICAL CHARACTERISTICS

3-2-1. TABLE

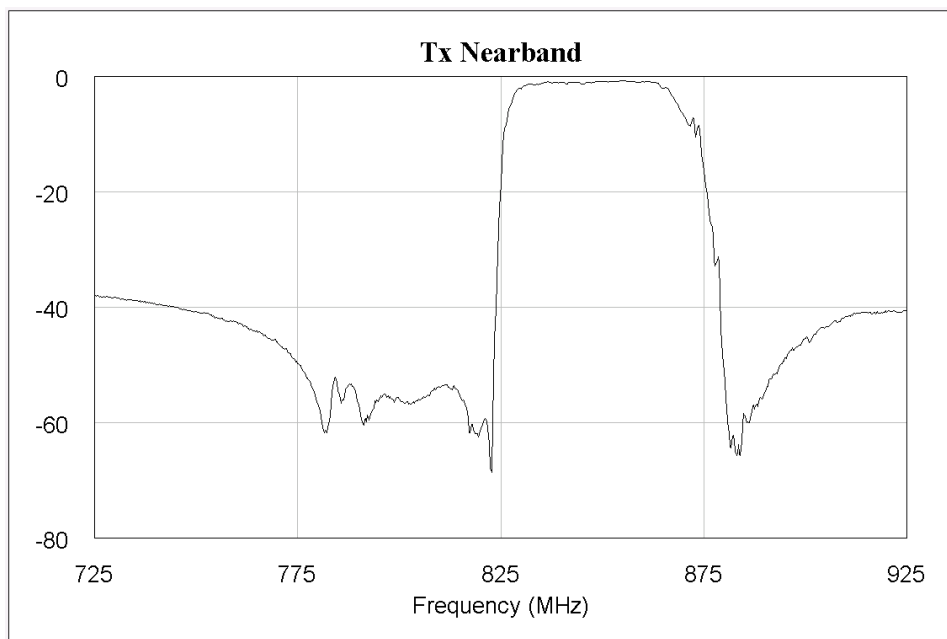
Ta = -30 ~ +85°C

Item	CONDITION [MHz]	UNIT	RATING		
			Min.	Typ.(25 ℃)	Max.
TX → ANTENNA					
Insertion Loss	832~ 862	dB	-	1.6	2.5
Inband Ripple	832~ 862	dB	-	0.9	1.8
VSWR	832~ 862	-	-	1.8	2.3
Absolute Attenuation	10~771	dB	31	36	-
	771~791	dB	40	49	-
	791~820	dB	50	54	-
	820~821	dB	45	52	-
	821~827	dB	1.5	5.6	-
	873~903	dB	4	8.4	-
	925~960	dB	35	40	-
	1565~1606	dB	41	46	-
	1664~2170	dB	40	45	-
	2400~2620	dB	40	44	-
	2620~2690	dB	40	44	-
	3328~3448	dB	30	40	-
	4000~6000	dB	10	20	-
Termination Impedance : INPUT / ANTENNA			50Ω // 10[nH] 50Ω // 12[nH]		
ANTENNA → RX					
Insertion Loss	791 ~ 821	dB	-	1.9	3.0
Inband Ripple	791 ~ 821	dB	-	0.8	2.2
VSWR	791 ~ 821	-	-	1.8	2.5

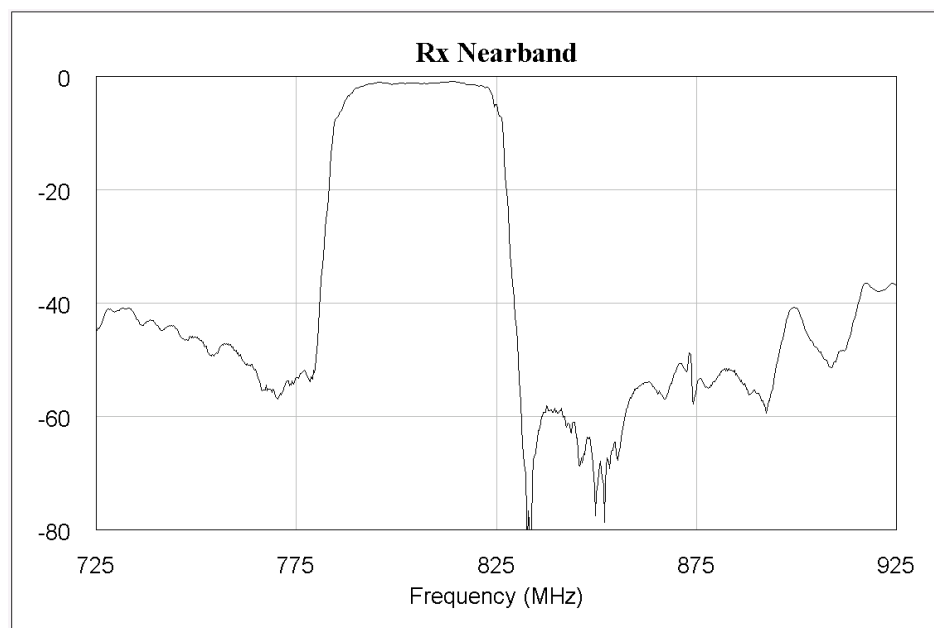
Absolute Attenuation	10~770	dB	35	40	-
	770~782	dB	5	27	-
	832~862	dB	50	55	-
	873~903	dB	35	41	-
	1623~1683	dB	35	43	-
	2373~2570	dB	35	39	-
	4900~6000	dB	13	26	-
Termination Impedance : ANT / OUTPUT			50Ω // 12nH] 50Ω // 26[nH]		
TX → RX					
Isolation between Tx and Rx	791~820	dB	53	57	-
	820~821	dB	50	57	-
	832~862	dB	54	57	-
	1574 ~ 1577	dB	40	54	-
	1664 ~ 1724	dB	20	53	-
	2496 ~ 2586	dB	20	49	-

3-2-2. GRAPH

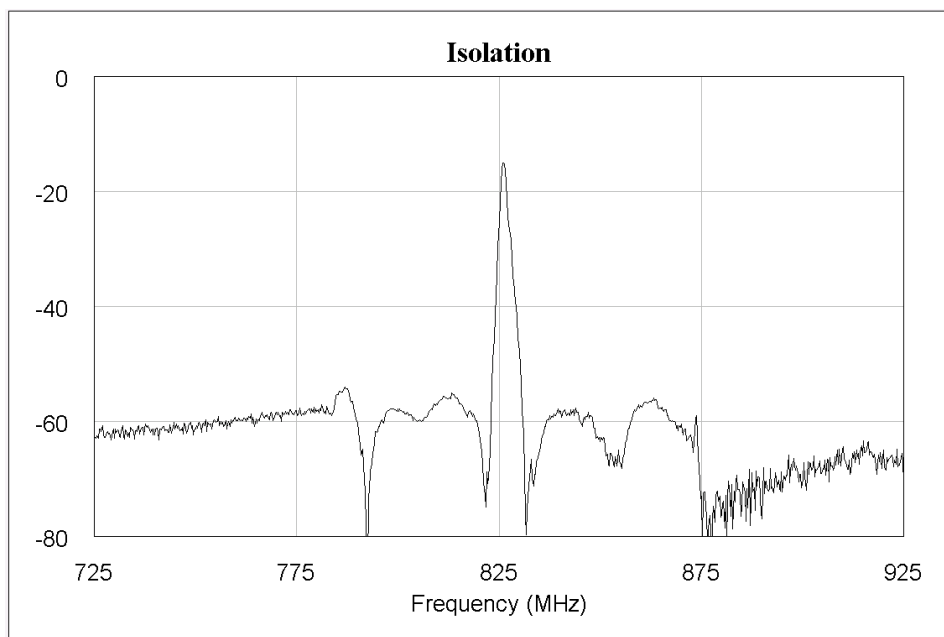
3-2-2-1. Tx→Ant, Transmission Characteristics



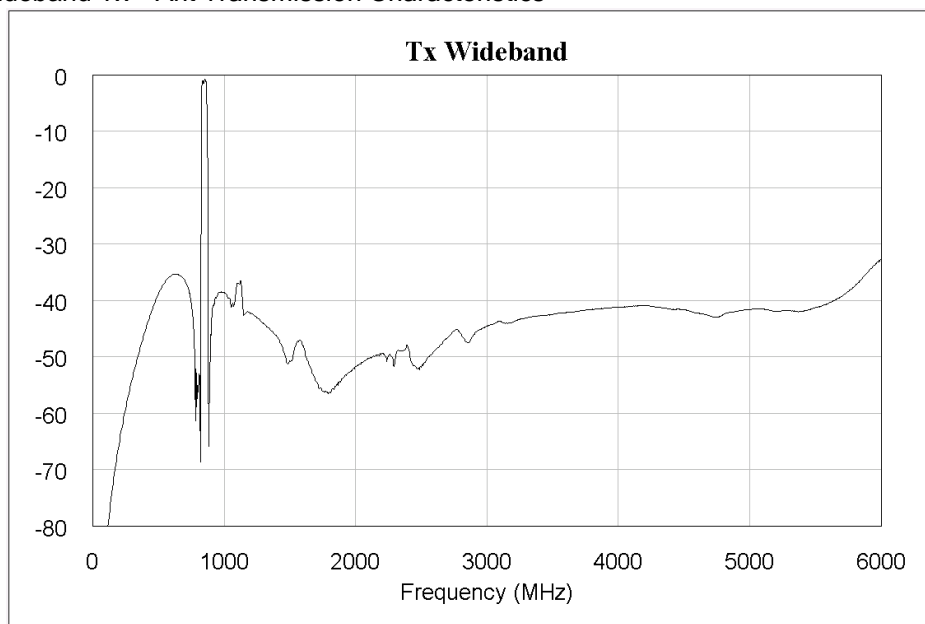
3-2-2-2 Ant→Rx Transmission Characteristics



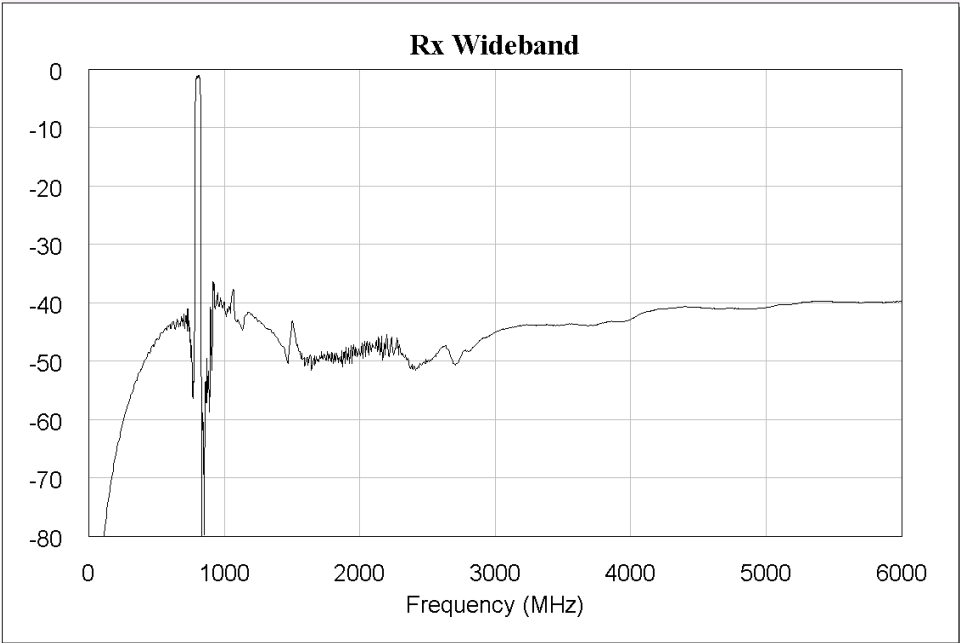
3-2-2-3. Tx→Rx Isolation Characteristics



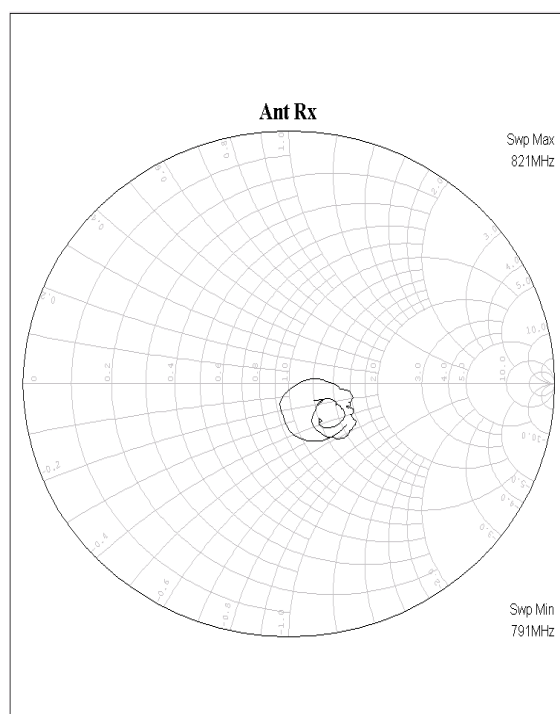
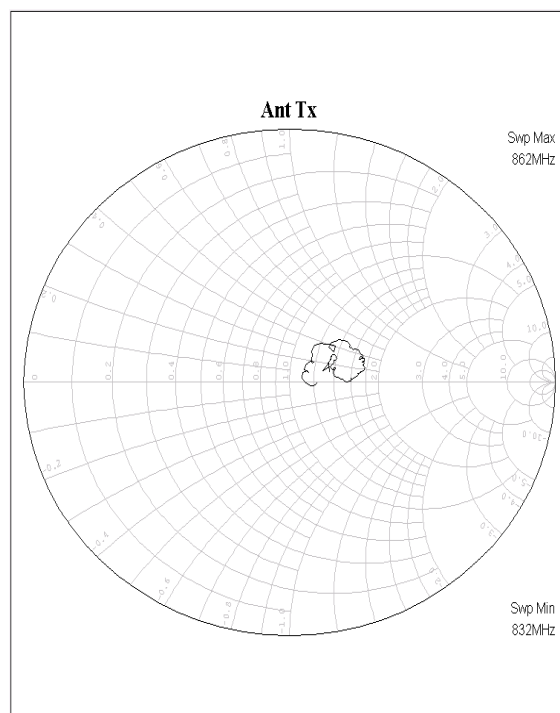
3-2-2-4. Wideband Tx→Ant Transmission Characteristics

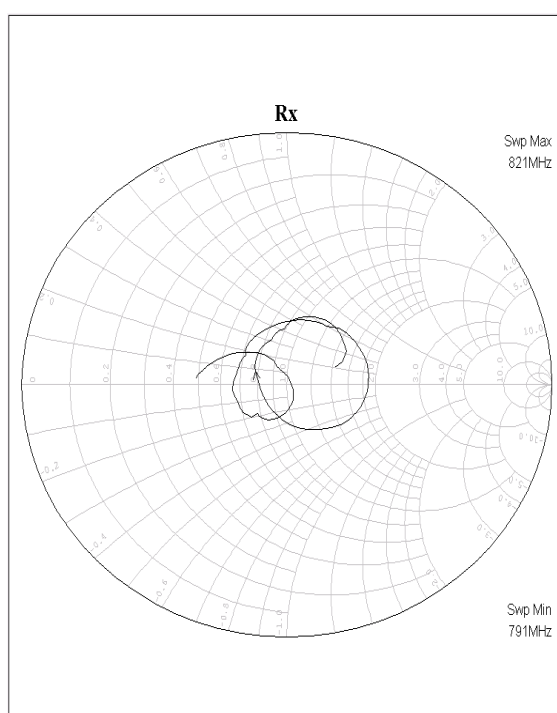
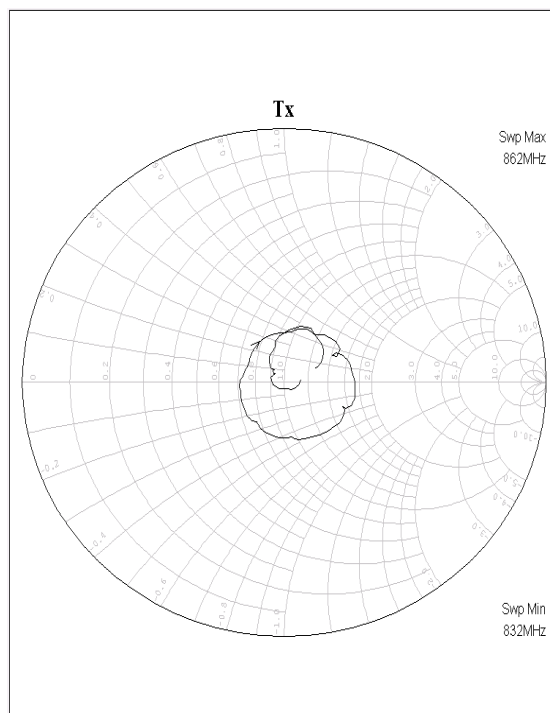


3-2-2-5. Wideband Ant→Rx Transmission Characteristics



3-2-2-6. Smith chart

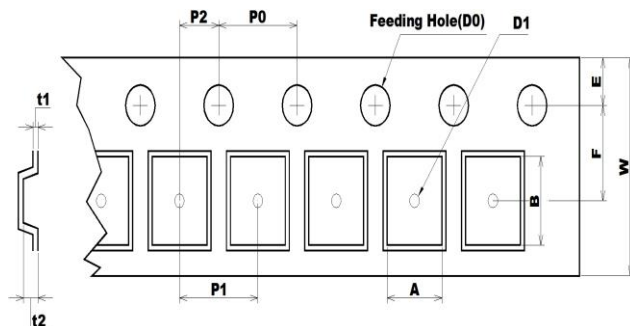




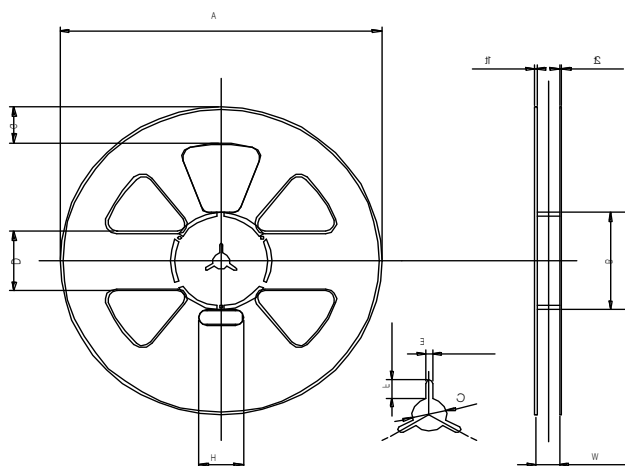
4. PACKING

4-1. DIMENSIONS

- Carrier Tape [Unit: mm]



- Reel [Unit: mm]



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

A	B	D0	D1
1.60 +0.05 -0.05	2.0 +0.05 -0.05	Ø1.55 +0.05 -0.05	Ø1.00 MIN
E	F	P0	P1
1.75 +0.10 -0.10	3.5 +0.05 -0.05	4 +0.10 -0.10	4 +0.10 -0.10
P2	t1	t2	W
2 +0.05 -0.05	0.25 +0.05 -0.05	0.80 +0.05 -0.05	8 +0.10 -0.10

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	

4-2. REELING QUANTITY

10 inch reel: 8,000 pcs/reel

4-3. TAPING STRUCTURE

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

