



SPECIFICATION

Surface Acoustic Wave Filter

- **Application : WCDMA DPX (UMTS Band 1)**
- **Model : SFXG50CY902**
- **Center Frequency : 1950.0 / 2140.0 [MHz]**



WISOL CO., LTD.

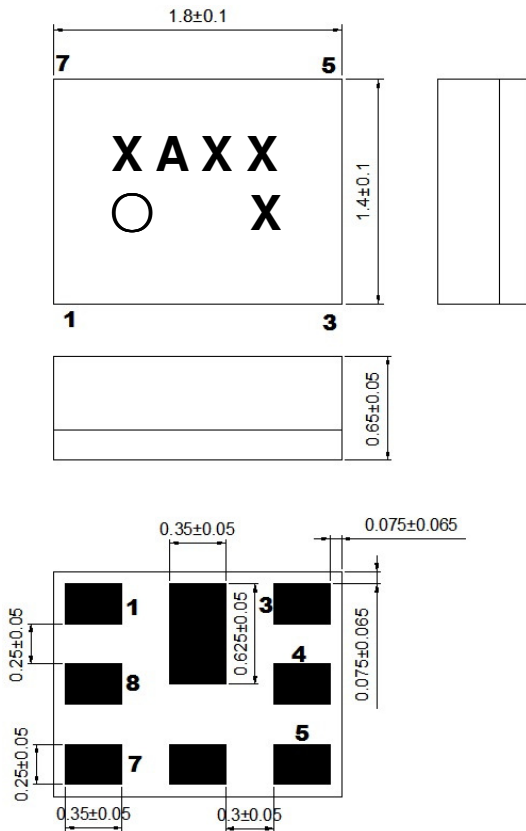
373-7, GAJANG-DONG, OSAN-SI,
GYUNGGI-DO, KOREA, 447-210

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

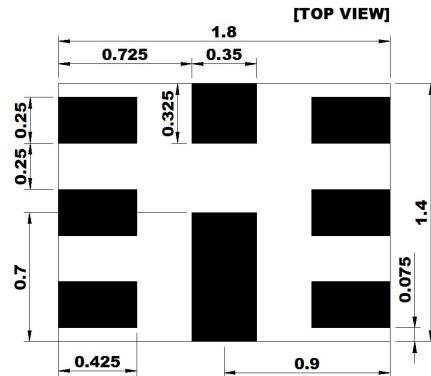
购买原装正品请认准-德方电子
免费服务热线: 400-655-8700
深圳总部电话: 0755-28187877
网址: www.denovocn.com

1. OUTLINE DRAWING & RECOMMENDED PCB

< Outline Drawing >



<Recommended PCB>

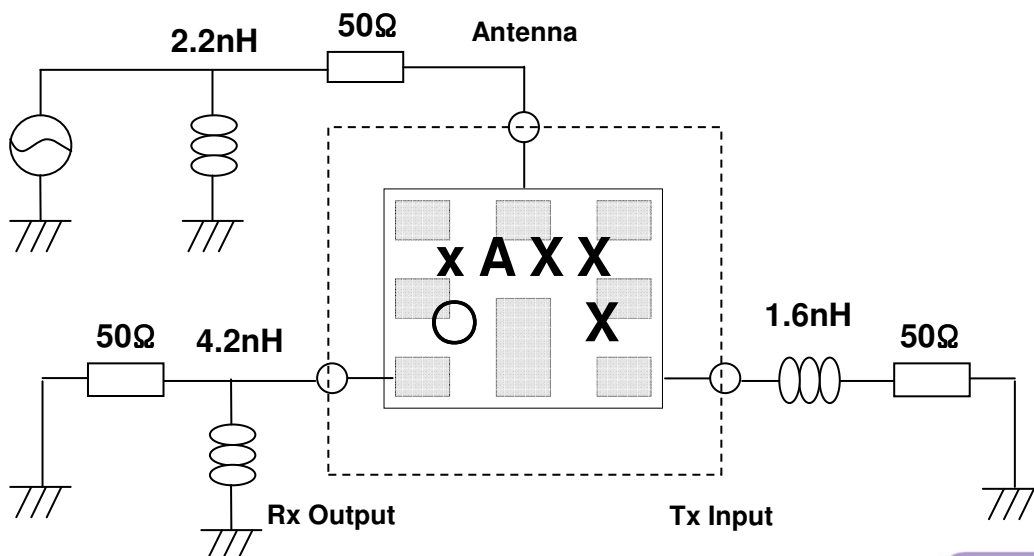


No.	Function
1	Rx Output
3	Tx Input
6	Antenna
2, 4, 5, 7, 8	GND

[Unit: mm]

2. TEST FIXTURE

< Top View >



3. PERFORMANCE

3-1. MAXIMUM RATINGS

CHARACTERISTICS	RATINGS	UNITS
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

TX → ANTENNA, ANTENNA → RX

Ta = -30 ~ +85°C

Item	CONDITION [MHz]	UNIT	RATING		
			Min.	Typ.(25°C)	Max.
TX → ANTENNA					
Insertion Loss	1920 ~ 1980	dB	-	1.5	1.9
Inband Ripple	1920 ~ 1980	dB	-	0.4	1.0
VSWR(Tx)	1920 ~ 1980	-	-	1.7	2.2
VSWR(Ant)	1920 ~ 1980	-	-	1.6	2.1
Absolute Attenuation	1 ~ 1000	dB	32	36	-
	1500 ~ 1600	dB	27	31	-
	1805 ~ 1880	dB	20	31	-
	2110 ~ 2170	dB	37	41	-
	2400 ~ 2500	dB	30	35	-
	3840 ~ 3960	dB	23	26	-
	4000 ~ 5000	dB	15	19	-
Termination Impedance : Tx / ANTENNA			50Ω(1.2[nH]) / 50Ω(// 2.7[nH])		
ANTENNA → RX					
Insertion Loss	2110 ~ 2170	dB	-	1.9	2.5
Inband Ripple	2110 ~ 2170	dB	-	0.4	1.0
VSWR(Rx)	2110 ~ 2170	-	-	1.8	2.3
VSWR(Ant)	2110 ~ 2170	-	-	1.3	2.0
Absolute Attenuation	1 ~ 1920	dB	36	41	-
	1920 ~ 1980	dB	46	50	-

	1980 ~ 2025	dB	40	46	-
	2255 ~ 2400	dB	30	34	-
	2400 ~ 2500	dB	32	47	-
	2500 ~ 3200	dB	36	42	-
	3200 ~ 6000	dB	35	40	-
Termination Impedance : ANT / Rx			50Ω(// 2.7[nH]) / 50Ω(//4.2[nH])		

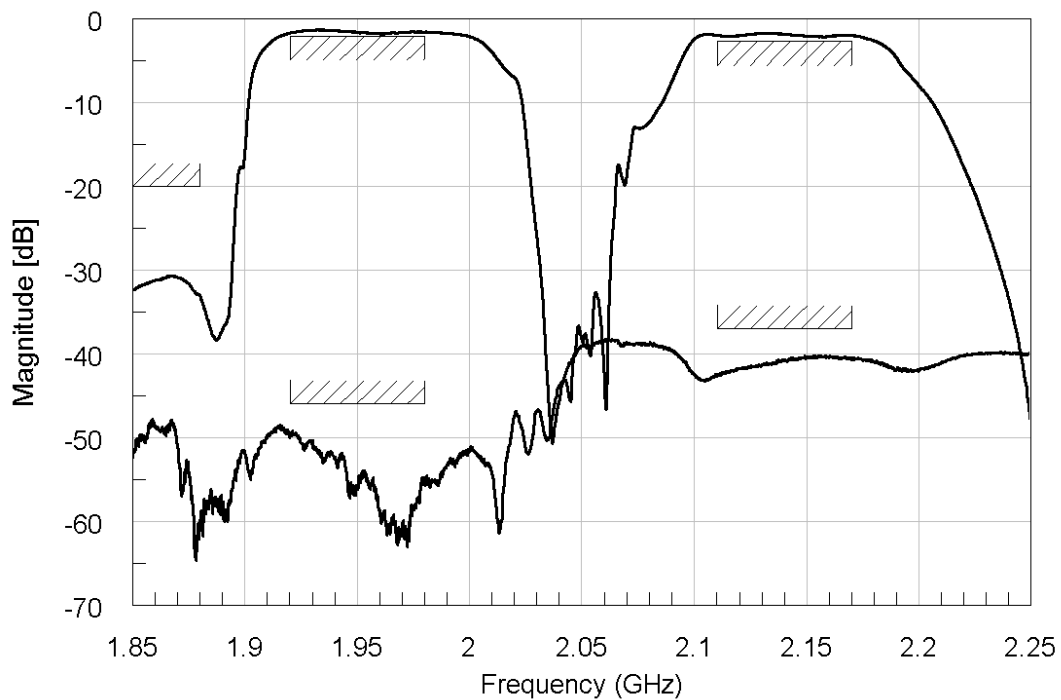
TX -> RX

Item	CONDITION [MHz]	UNIT	RATING		
			Min.	Typ.(25°C)	Max.
TX → RX					
Isolation between Rx and Tx	1920 ~ 1980	dB	50	54	-
	2110 ~ 2170	dB	50	55	-
	1574 ~ 1577	dB	48	55	-
	3840 ~ 3960	dB	45	52	-
	4220 ~ 4340	dB	47	54	-

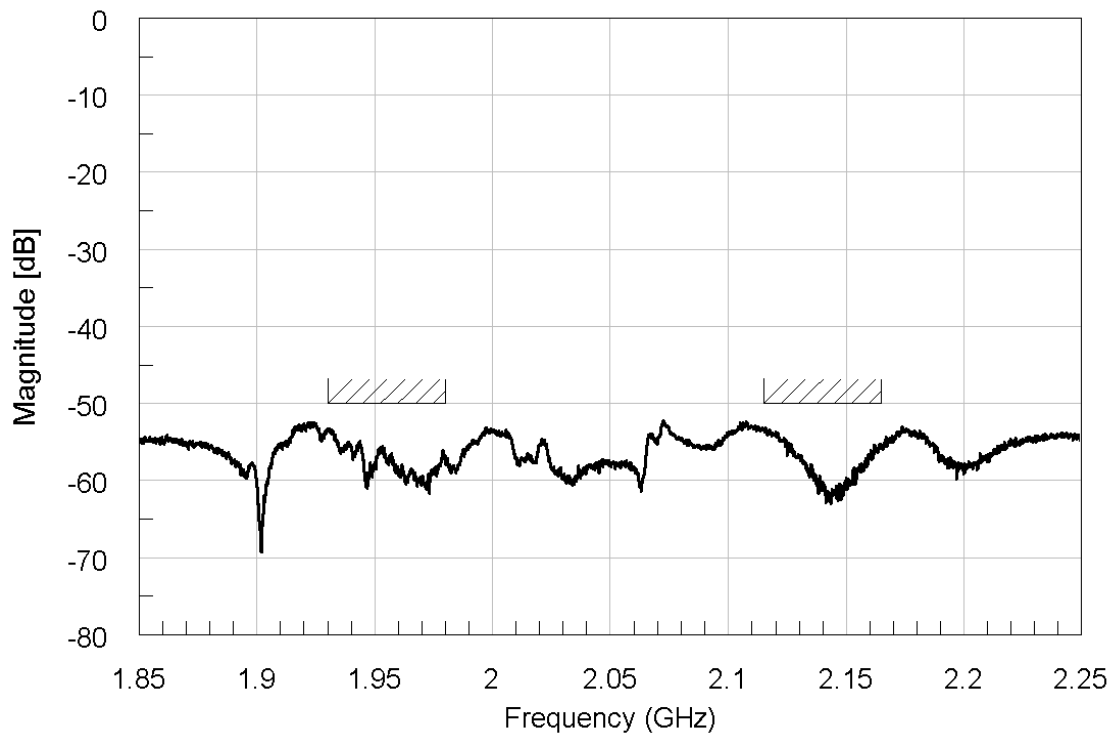
※ Note : Excluding losses due to PCB

3-2-2. GRAPH

Tx→Ant, Ant→Rx Transmission Characteristics



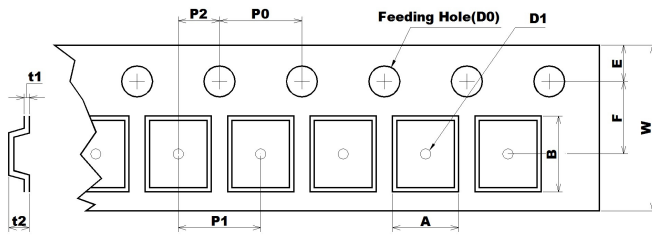
Tx→Rx Isolation Characteristics



4. PACKING

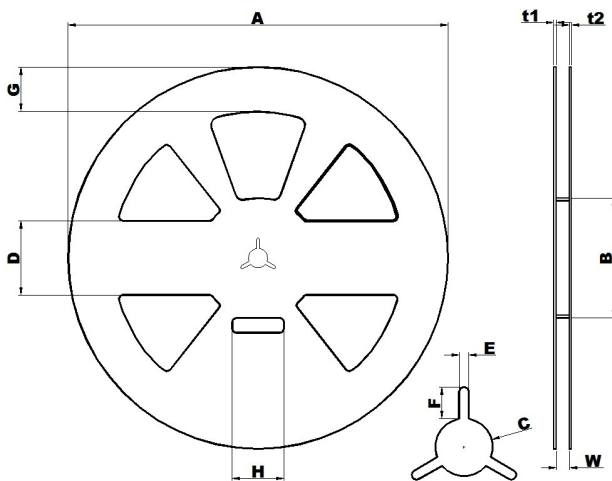
4-1. DIMENSIONS

- 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	

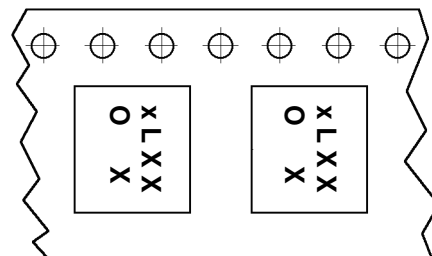
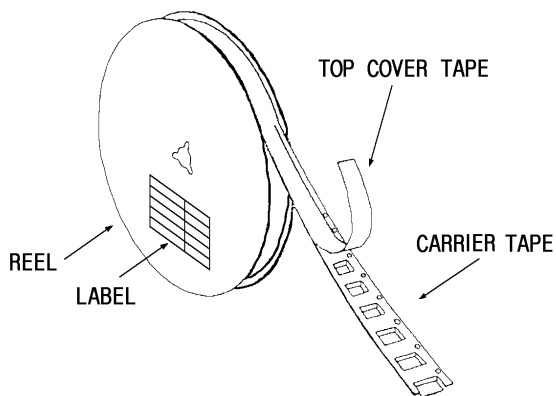
- The product shall be packed properly not to be damaged during transportation and storage.

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.



Tape Running Direction

4-4. WEIGHT

7mg/EA