



DATASHEET

(Preliminary)

Surface Acoustic Wave Filter

- **Application : LTE B40 TRx filter**
- **Model : SFDG35BA402**
- **Center Frequency : 2350.0 [MHz]**



WISOL CO., LTD.

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

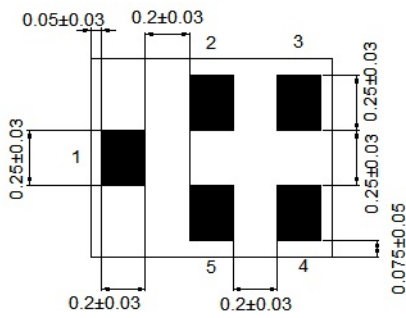
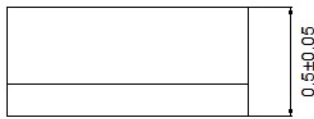
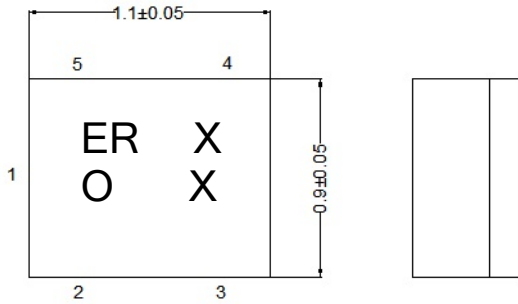
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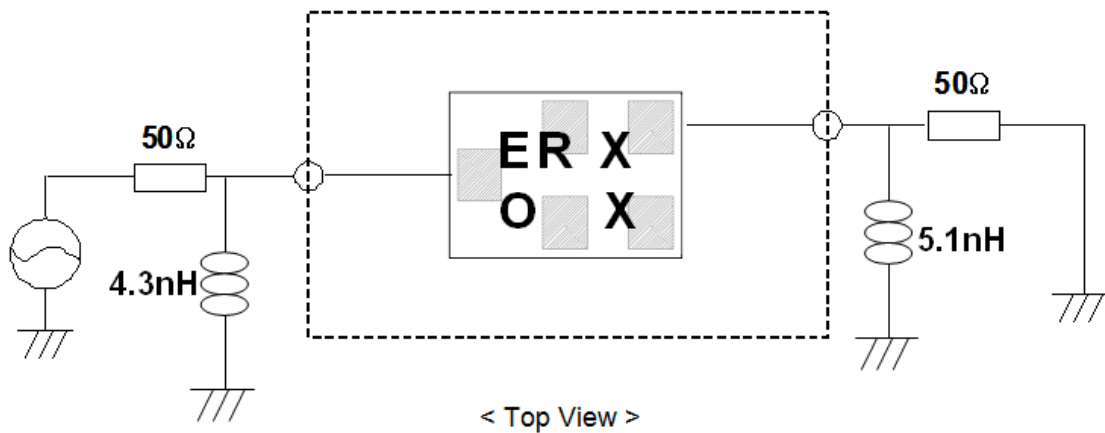
1. OUTLINE DRAWING & RECOMMENDED PCB

[Unit: mm]



No.	Function
2, 3, 5	Ground
1	Unbalanced Input
4	Unbalanced Output

2. TEST FIXTURE



3. PERFORMANCE

3-1. MAXIMUM RATINGS

CHARACTERISTICS	RATINGS	UNITS
DC Permissive Voltage	5	V
Maximum Input Power	28	dBm
Operating Temperature Range	-30 ~ +85	°C
Storage Temperature Range	-40 ~ +85	°C

3-2. ELECTRICAL CHARACTERISTICS

3-2-1. TABLE

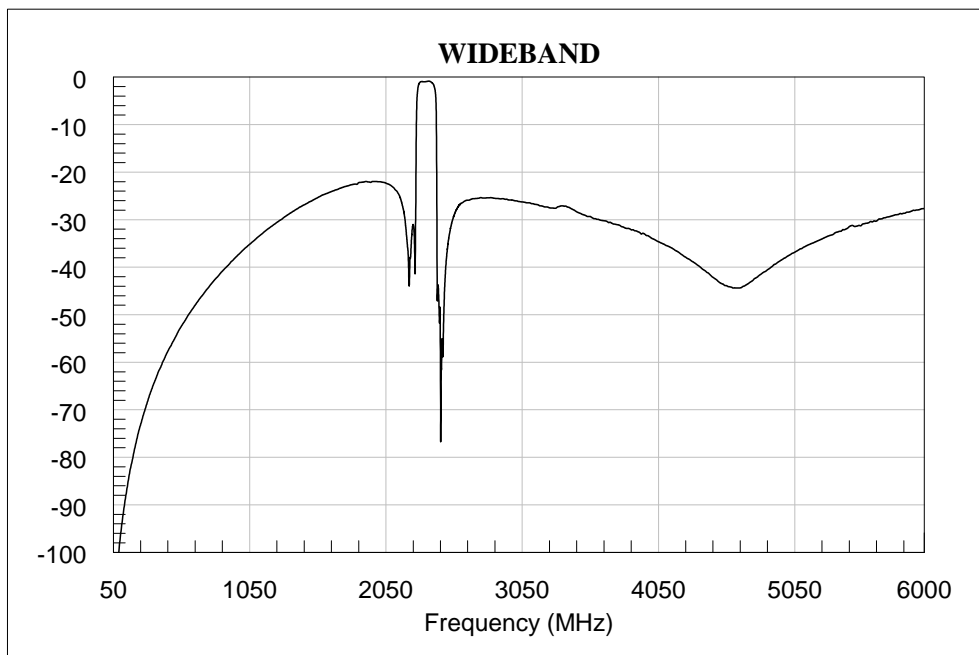
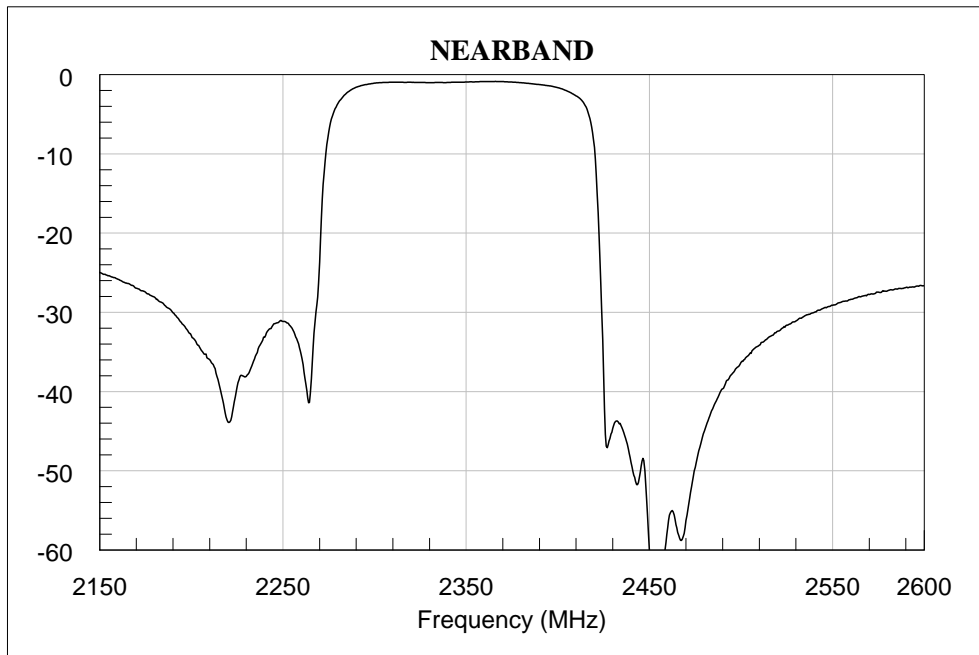
Ta = -30 ~ +85 deg
* PCB loss is de-embedded

Item	FREQUENCY RANGE [MHz]	UNIT	SPECIFICATION			Note
			Min.	Typ. (25degC)	Max.	
Insertion Loss	2300 ~ 2400	dB	-	1.6	2.7	
Insertion Loss	2300 ~ 2400	dB	-	1.6	2.2	23deg.C ~ 27deg.C
Inband Ripple	2300 ~ 2400	dB	-	0.8	1.5	
Input VSWR	2300 ~ 2400	-	-	1.6	2.0	
Output VSWR	2300 ~ 2400	-	-	1.4	2.0	
Attenuation	50 ~ 1574	dB	20	25	-	
	1574 ~ 1577	dB	20	25	-	
	1577 ~ 1680	dB	20	24	-	
	1845 ~ 1880	dB	18	22	-	
	2110 ~ 2170	dB	19	23	-	
	2421 ~ 2443 (2432~2443)	dB _{INT} (dB)	6	35	-	WLAN ch05 18MHz-BW
	2426 ~ 2448 (2437~2448)	dB _{INT} (dB)	15	47	-	WLAN ch06 18MHz-BW
	2431 ~ 2483 (2442 ~ 2472)	dB _{INT} (dB)	30	49	-	WLAN ch07-13 18MHz-BW
	2421 ~ 2443 (2432~2443)	dB _{INT} (dB)	18	35	-	+23 to +85deg.C, WLAN ch05 18MHz-BW
	2426 ~ 2448 (2437~2448)	dB _{INT} (dB)	35	47	-	+23 to +85deg.C, WLAN ch06 18MHz-BW
	2431 ~ 2483 (2442 ~ 2472)	dB _{INT} (dB)	44	49	-	+23 to +85deg.C, WLAN ch07-13 18MHz-BW
	4600 ~ 4800	dB	36	41	-	2f
6900 ~ 7200	dB	13	18	-	3f	

Termination Impedance

Input: Unbalanced 50 Ohm // 4.3 nH
Output: Unbalanced 50Ohm // 5.1 nH

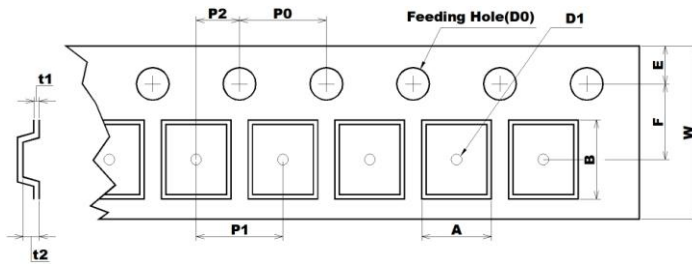
3-2-2. GRAPH
3-2-2-1.



4. PACKING

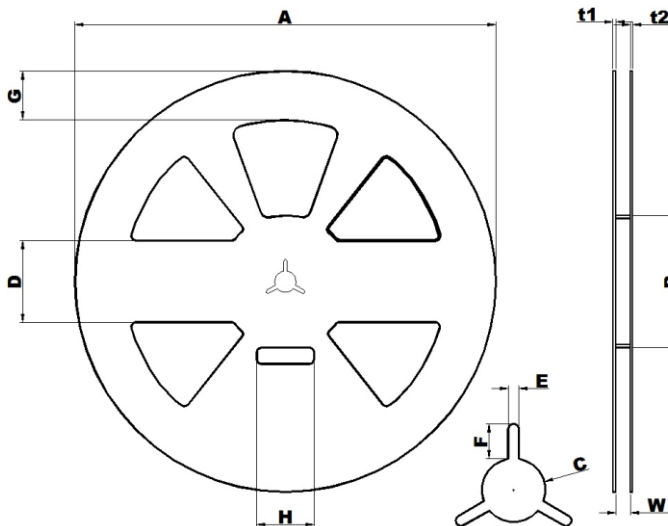
4-1. DIMENSIONS

- Carrier Tape [Unit: mm]



A	B	D0	D1
1.08	1.23	Ø1.50	Ø0.50
+0.05	+0.05	+0.10	+0.01
-0.05	-0.05	-0.00	
E	F	P0	P1
1.75	3.50	4.00	4.00
+0.10	+0.05	+0.05	+0.05
-0.10	-0.05	-0.05	-0.05
P2	t1	t2	W
2.00	0.23	0.70	8.00
+0.05	+0.05	+0.05	+0.30
-0.05	-0.05	-0.05	-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	

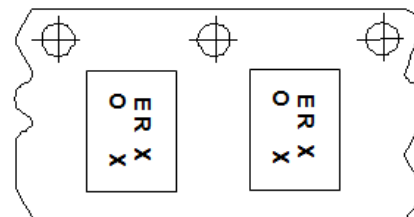
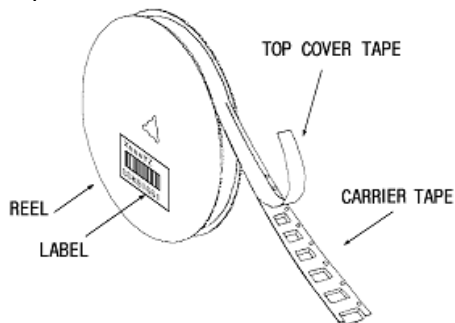
- The product shall be packed properly not to be damaged during transportation and storage.

4-2. REELING QUANTITY

10 inch reel: 10,000 pcs/reel

4-3. TAPING STRUCTURE

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



Tape Running direction