



DATASHEET

Surface Acoustic Wave Filter

- **Application : LTE BAND28F TC-SAW**
- **Model : SFH780AA402**
- **Center Frequency : 780 [MHz]**



WISOL CO. LTD.

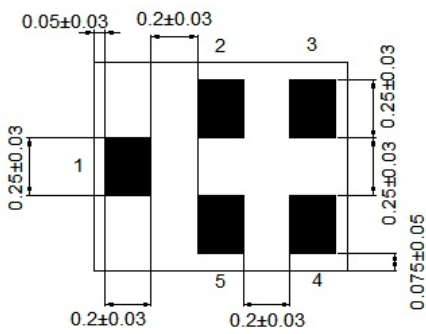
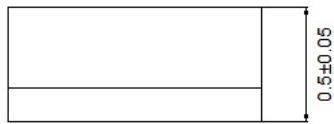
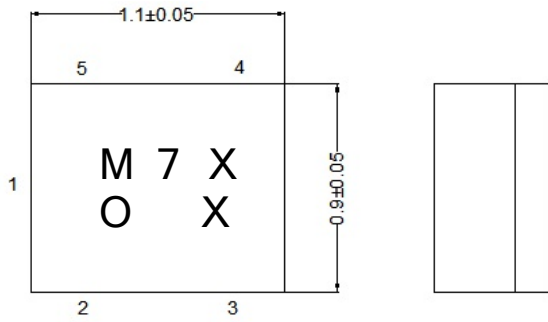
531-7, Gajang-ro, Osan-si,
GYEONGGI-DO, KOREA, 18103

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

E-mail: sales@wisol.co.kr

1. OUTLINE DRAWING & RECOMMENDED PCB

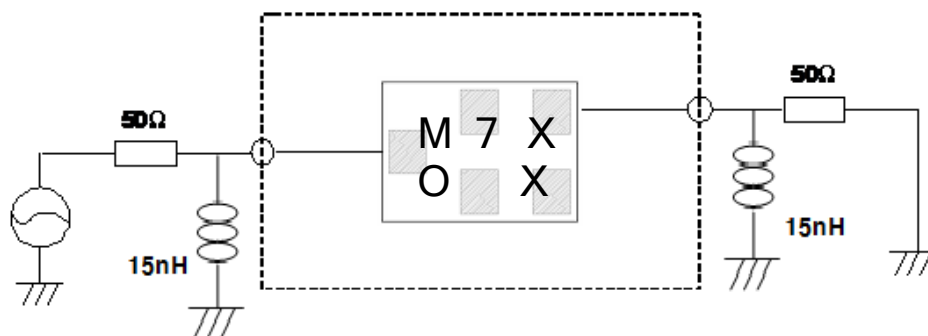
[Unit: mm]



모든단자의 크기는 똑같다.

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

2. TEST FIXTURE



< Top View >

3. PERFORMANCE

3-1. MAXIMUM RATINGS

CHARACTERISTICS	RATINGS	UNITS
DC Permissive Voltage	5	V
Maximum Input Power	15	dBm
Operating Temperature Range	- 30 ~ +85	°C
Storage Temperature Range	- 40 ~ +85	°C

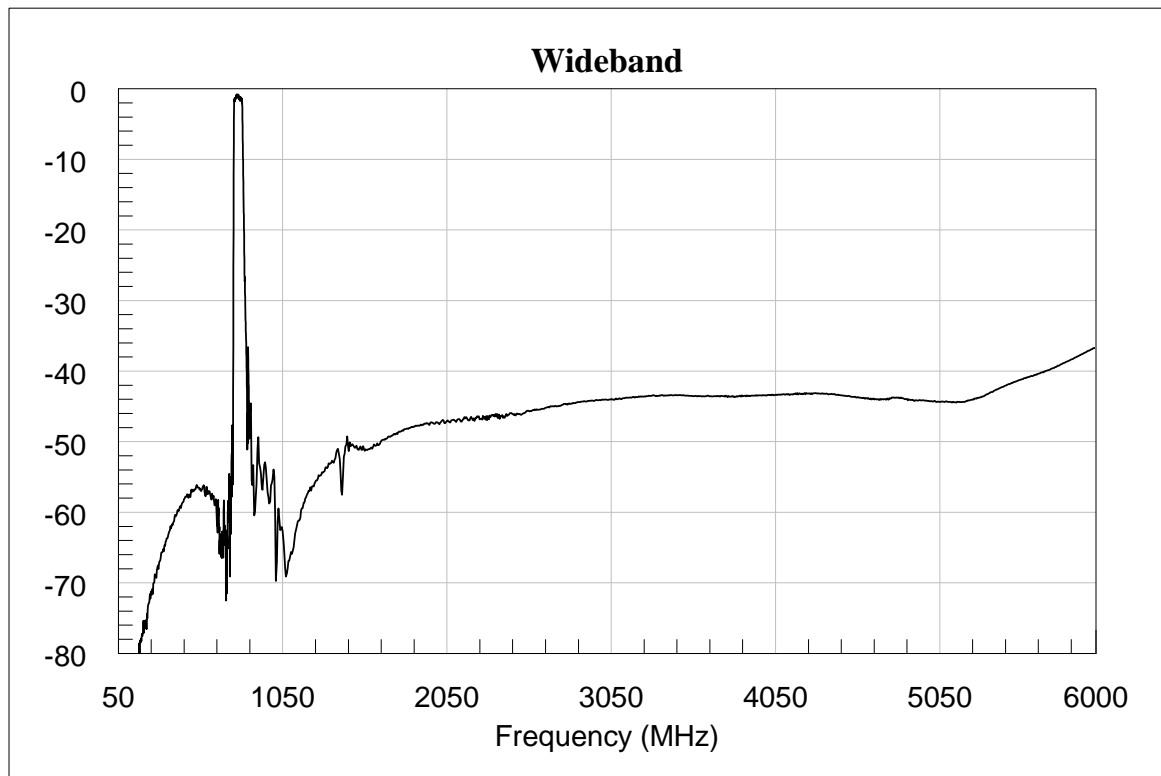
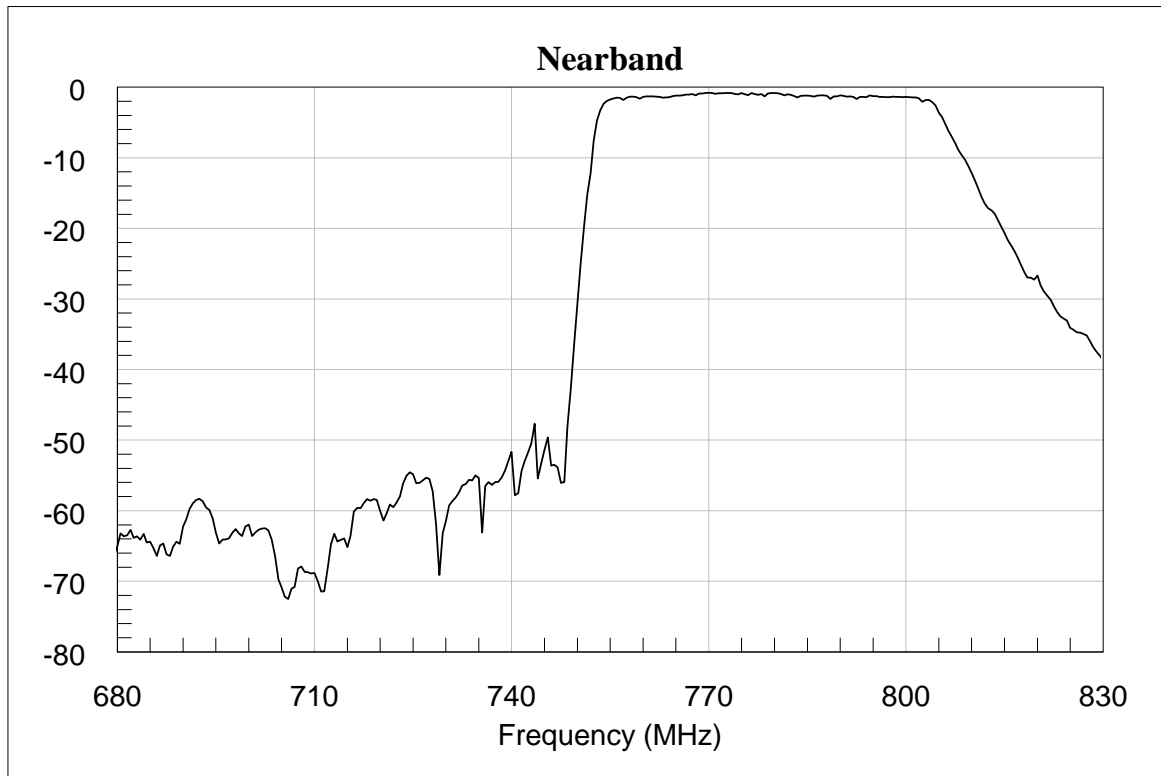
3-2. ELECTRICAL CHARACTERISTICS

3-2-1. TABLE

Ta = -30 ~ +85°C
PCB loss is de-embedded.

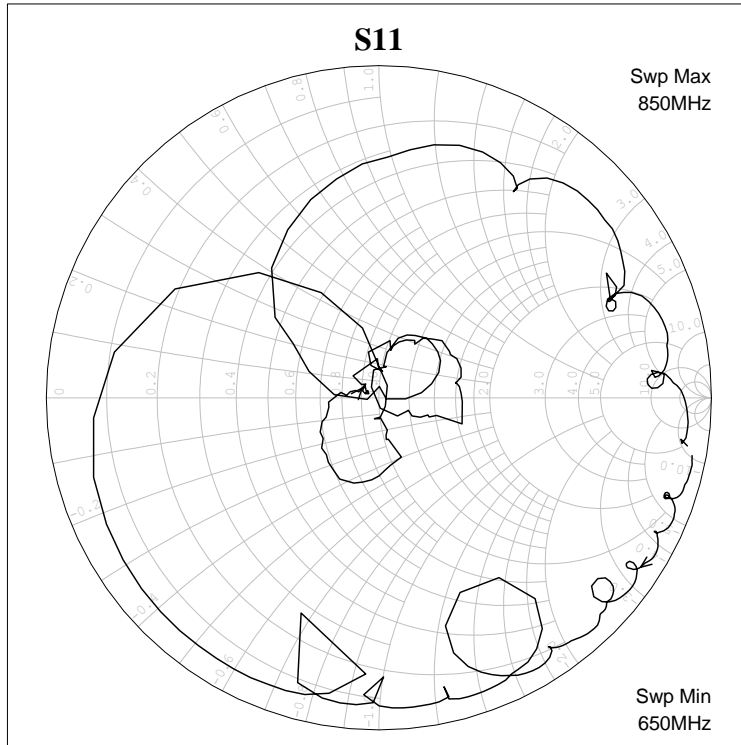
Item	CONDITION [MHz]	UNIT	RATING		
			Min.	Typ.(25°C)	Max.
ANT → RX					
Insertion Loss	758 ~ 803	dB	-	1.8	TBD
Inband Ripple	758 ~ 803	dB	-	1.0	TBD
VSWR	758 ~ 803	-	-	1.8	TBD
Absolute Attenuation	1 ~ 703	dB	TBD	56	-
	703~748	dB	TBD	48	
	830 ~ 915	dB	TBD	36	-
	1710 ~ 1785	dB	TBD	48	-
	1850 ~ 1920	dB	TBD	47	-
	1920 ~ 2400	dB	TBD	46	-
	2400 ~ 2500	dB	TBD	45	-
	2484 ~ 2775	dB	TBD	44	-
	2775 ~ 2880	dB	TBD	44	-
	2800 ~ 6000	dB	TBD	36	-
Termination Impedance : ANT / RX			50 Ω (//15[nH]) / 50 Ω (//15[nH])		

3-2-2. GRAPH



S11

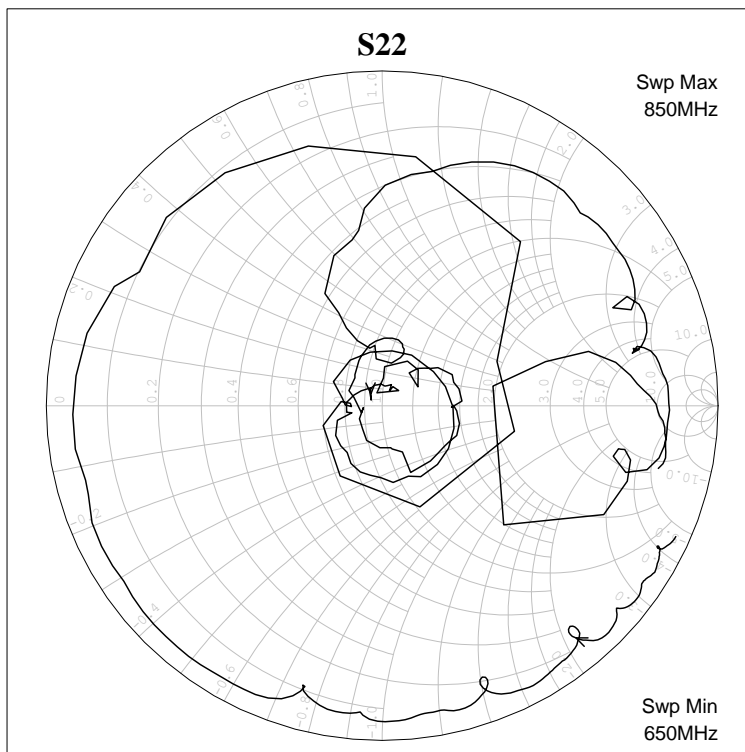
Swp Max
850MHz



Swp Min
650MHz

S22

Swp Max
850MHz

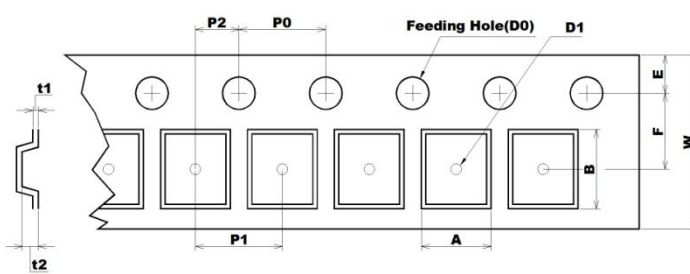


Swp Min
650MHz

4. PACKING

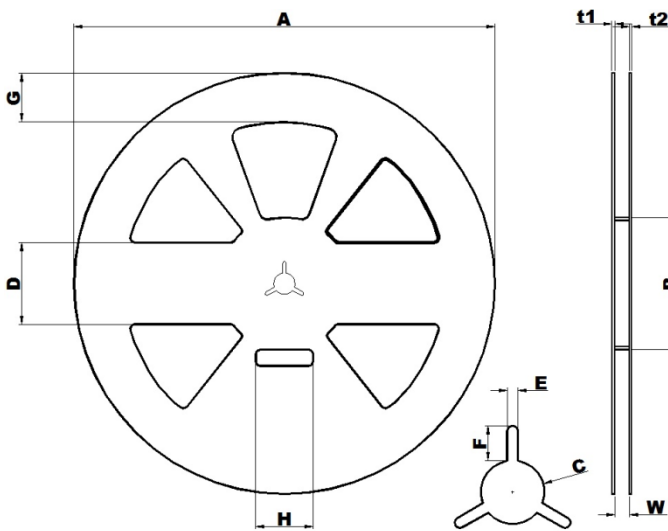
4-1. DIMENSIONS

- Carrier Tape [Unit: mm]



A	B	D0	D1
1.10	1.35	Ø1.50	Ø0.50
+0.05	+0.05	+0.10	+0.05
-0.05	-0.05	-0.00	-0.05
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	0.25	0.70	8.00
+0.05	+0.02	+0.07	+0.30
-0.05	-0.02	-0.07	-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.

