



# **DATASHEET**

## **-Preliminary-**

# **Surface Acoustic Wave Filter**

- **Application : BAND40(100MHz) TRx Filter**
- **Model : SFDG35AQ102**
- **Center Frequency : 2350 [MHz]**



**WISOL CO., LTD.**

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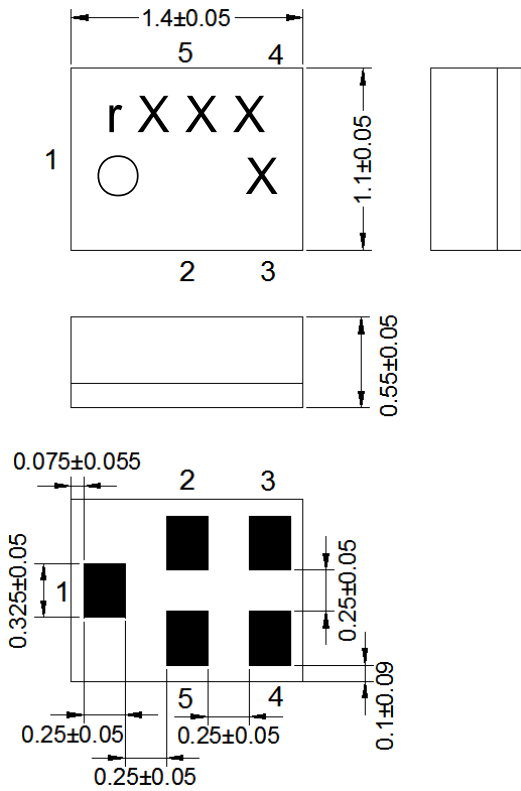
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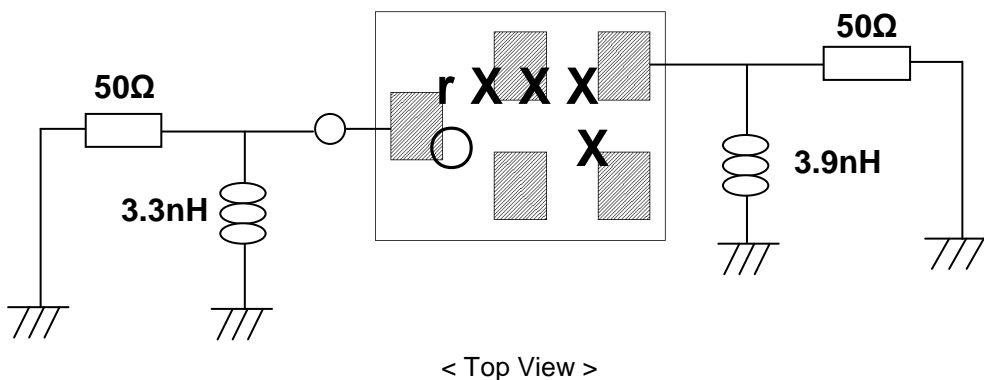
### 1. OUTLINE DRAWING & RECOMMENDED PCB

[Unit: mm]



No.	Function
2, 3, 5	Ground
1	Unbalanced Input (Tx)
4	Unbalanced Output (ANT)

### 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

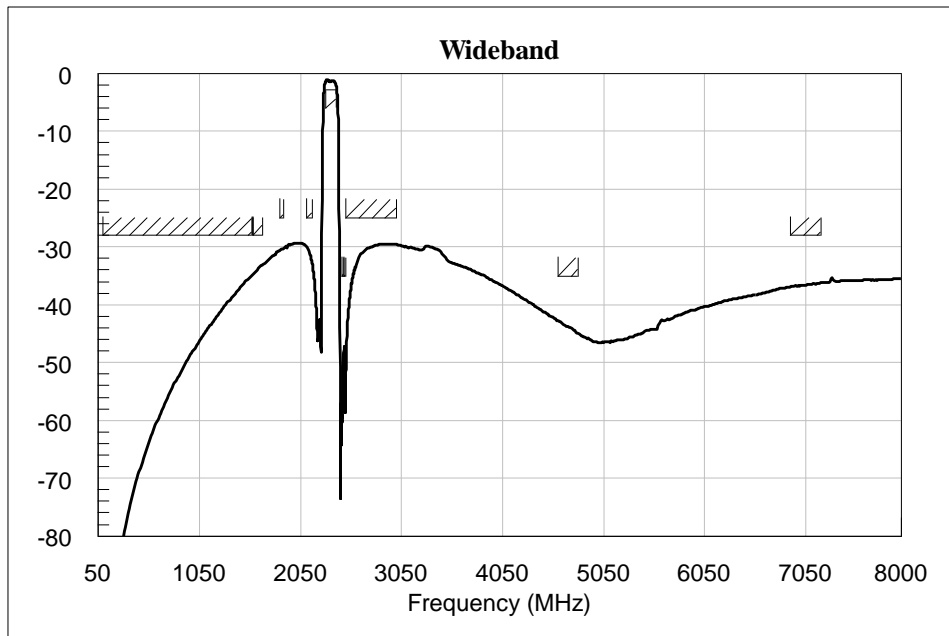
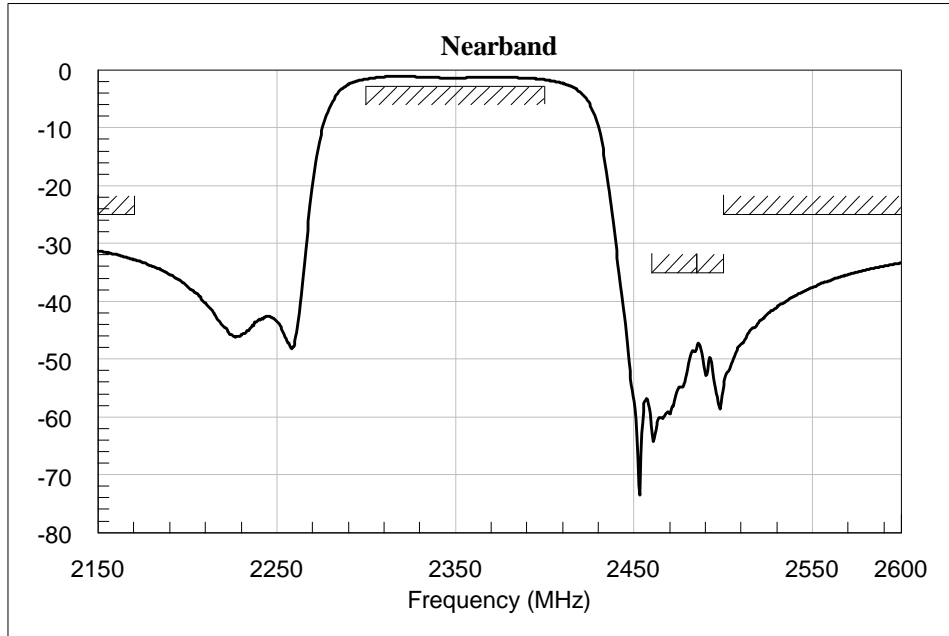
#### 3-2. ELECTRICAL CHARACTERISTICS

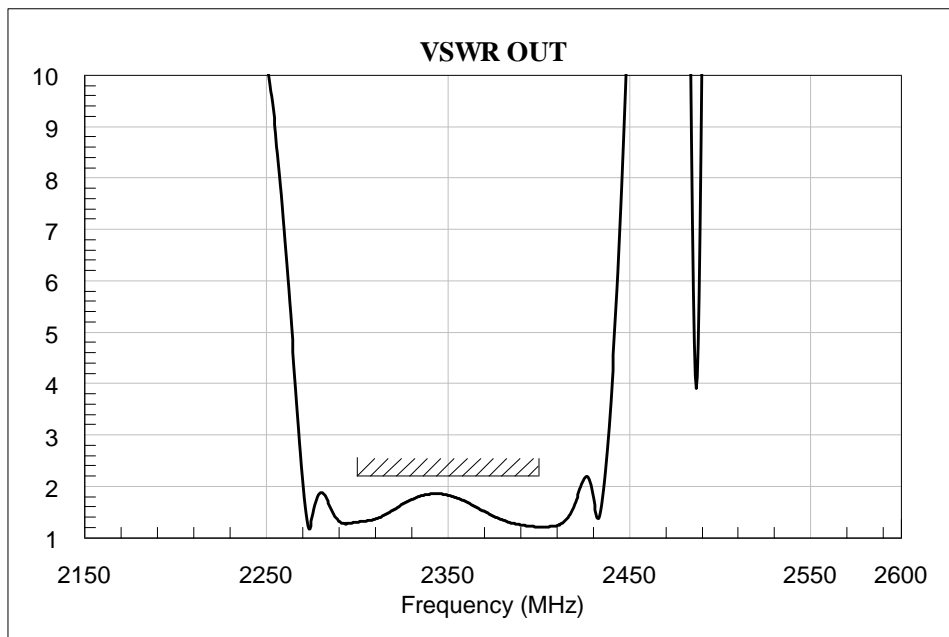
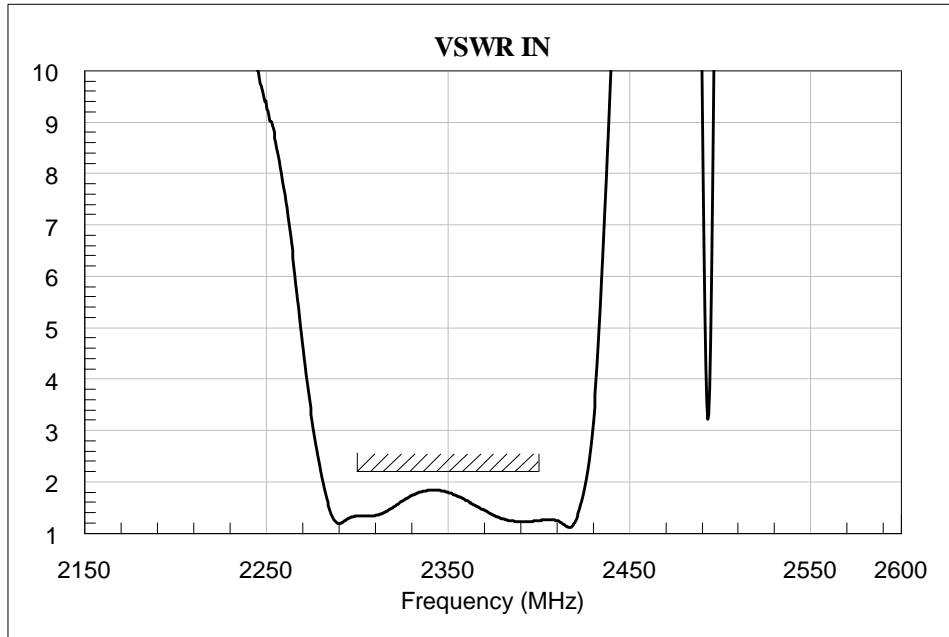
##### 3-2-1. TABLE

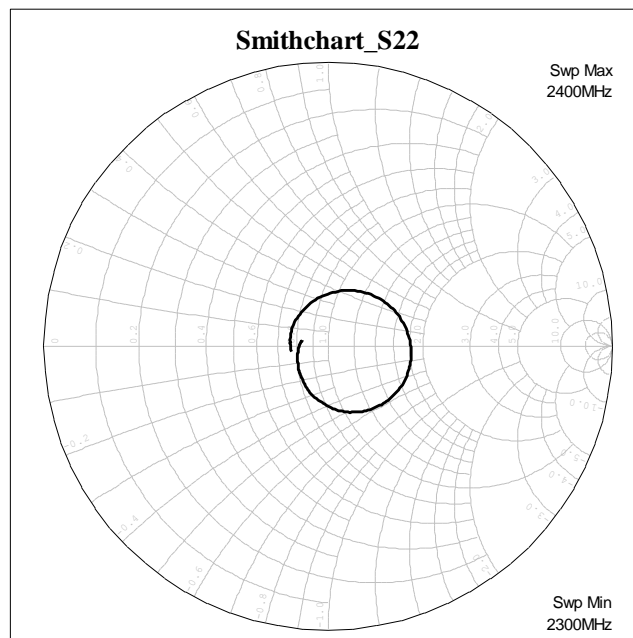
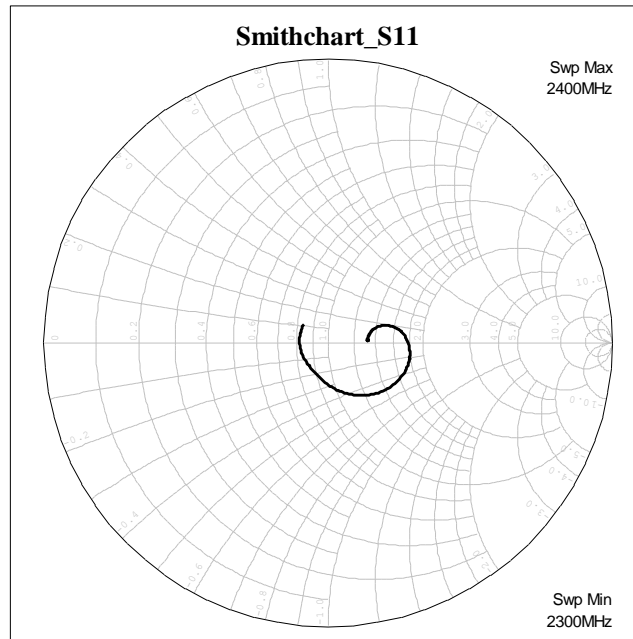
Ta = - 30 ~ + 85 °C  
 \*1.PCB loss is de-embedded.

Item	CONDITION [MHz]	UNIT	RATING			Notes
			Min.	Typ.(25°C)	Max.	
Insertion Loss(*1)	2300 ~ 2400	dB	-	1.8	TBD	
Ripple Deviation	2300 ~ 2400	dB	-	0.7	TBD	
VSWR	2300 ~ 2400	-	-	1.9	TBD	
Absolute Attenuation	100 ~ 1574	dB	TBD	34	-	
	1574 ~ 1577	dB	TBD	34	-	
	1577 ~ 1680	dB	TBD	33	-	
	1845 ~ 1880	dB	TBD	30	-	
	2110 ~ 2170	dB	TBD	30	-	
	2460 ~ 2485	dB	TBD	48	-	
	2485 ~ 2500	dB	TBD	47	-	
	2500 ~ 3000	dB	TBD	29	-	
	4600 ~ 4800	dB	TBD	42	-	
6900 ~ 7200	dB	TBD	36	-		
Termination Impedance : Tx / ANT			50Ω (//3.3[nH]) / 50Ω (//3.9[nH])			

3-2-2. GRAPH



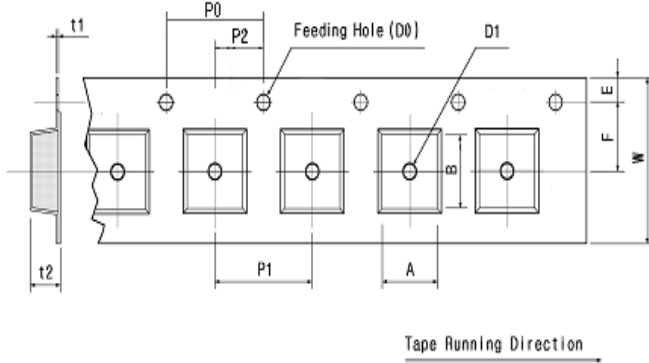




4. PACKING

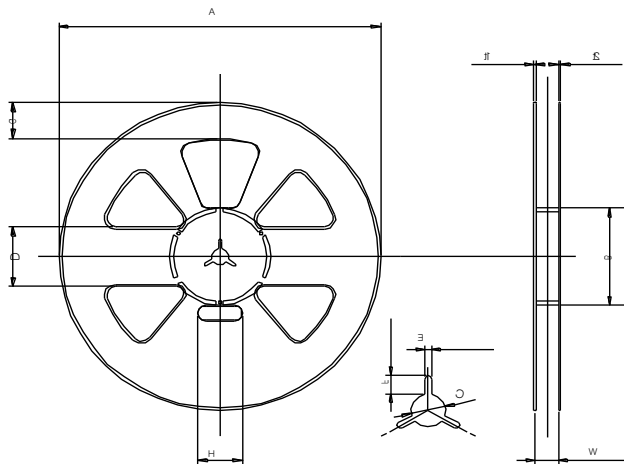
4-1. DIMENSIONS

- Carrier Tape [Unit: mm]



A	B	D0	D1
1.30	1.60	Ø1.50	Ø0.6
+ 0.05	+ 0.05	+ 0.10	MIN
- 0.05	- 0.05	- 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	0.25	0.70	8.00
+ 0.05	+ 0.05	+ 0.05	+ 0.10
- 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	

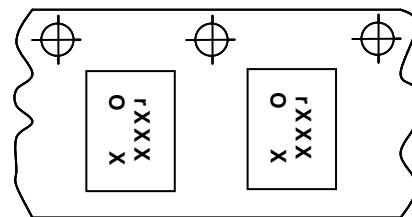
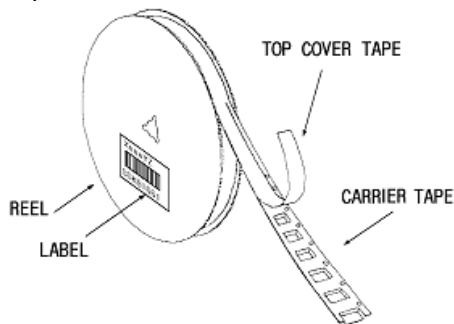
- The product shall be packed properly not to be damaged during transportation and storage.

4-2. REELING QUANTITY

10 inch reel: 8,000 pcs/reel

4-3. TAPING STRUCTURE

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



Tape Running direction

