

SAW Filter 869MHz

MODEL NO.:TA2609A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm (at 50 °C during 50 000 hours)
2. Max Input Power pulse level: 27 dBm
3. DC Voltage : 10V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitive Level (MSL): Level 1



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : $Z_s = 50 \Omega$

Terminating load impedance(single) : $Z_L = 50 \Omega$

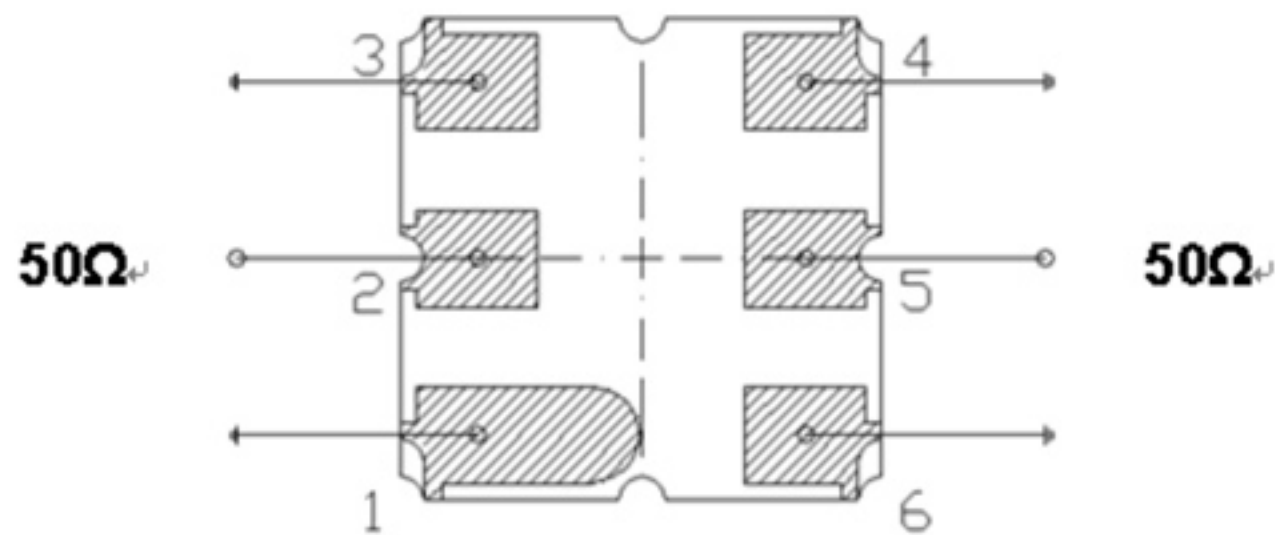
Item	Unit	Min	Type.	Max	Note
Center Frequency Fc	MHz	-	869.	-	
Insertion Loss (868~870 MHz) IL	dB		3.0	3.4	23 ~ 27°C
VSWR (868~870 MHz)			1.5	2.0	
Amplitude ripple					
(868~870 MHz)	dB		0.5	1.2	
Attenuation					
DC ~ 300 MHz	dB	45	50		
300 ~ 856.5 MHz	dB	40	45		
856.5 ~ 859.5 MHz	dB	15	20		
878 ~ 883.5 MHz	dB	15	20		23 ~ 27°C
883.5 ~ 1500 MHz	dB	48	53		23 ~ 27°C
1500 ~ 2600 MHz	dB	35	40		
Package size	mm	SMD 3x3			

C. TEST CIRCUIT:

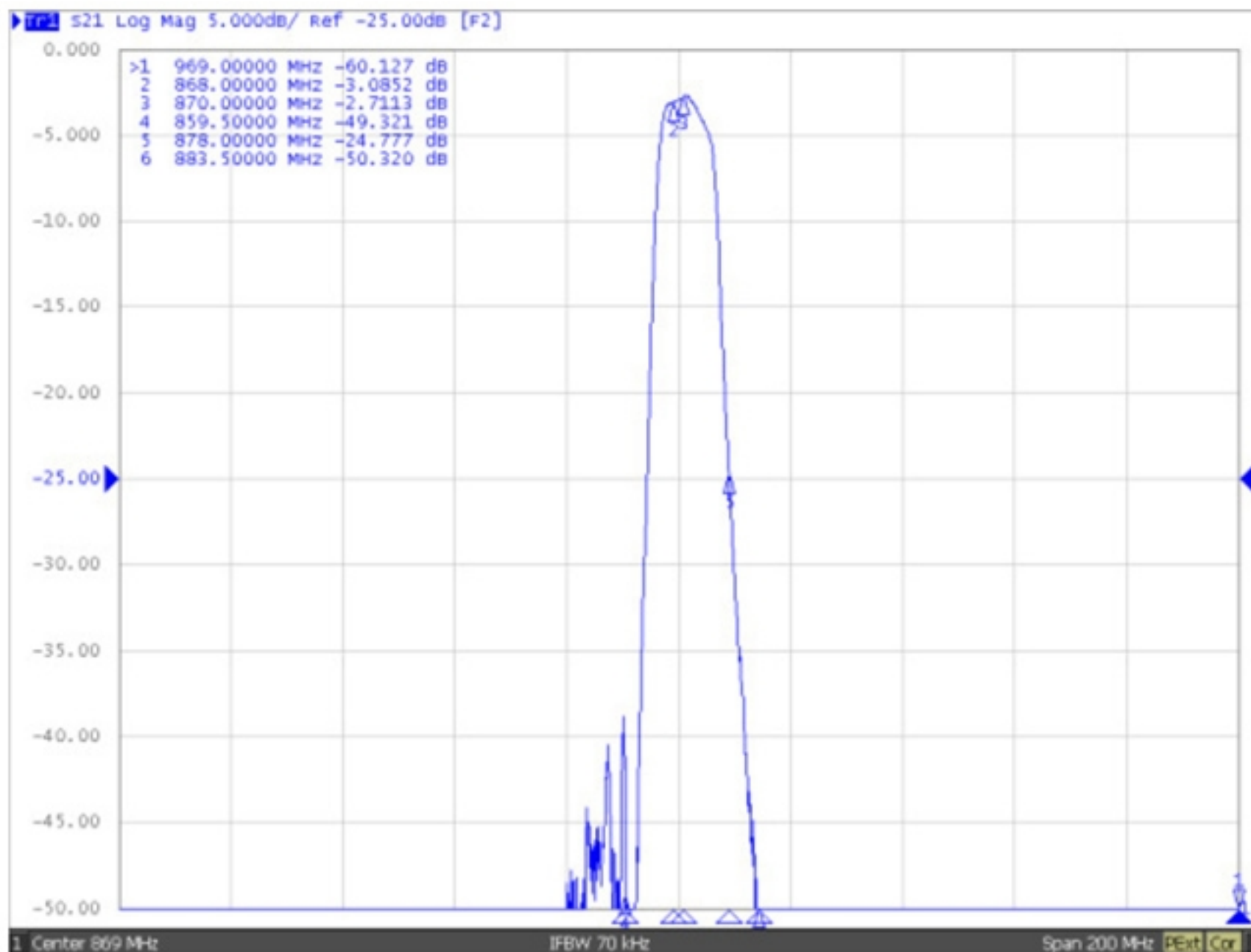
(2): Unbalance Port

(5): Unbalance Port

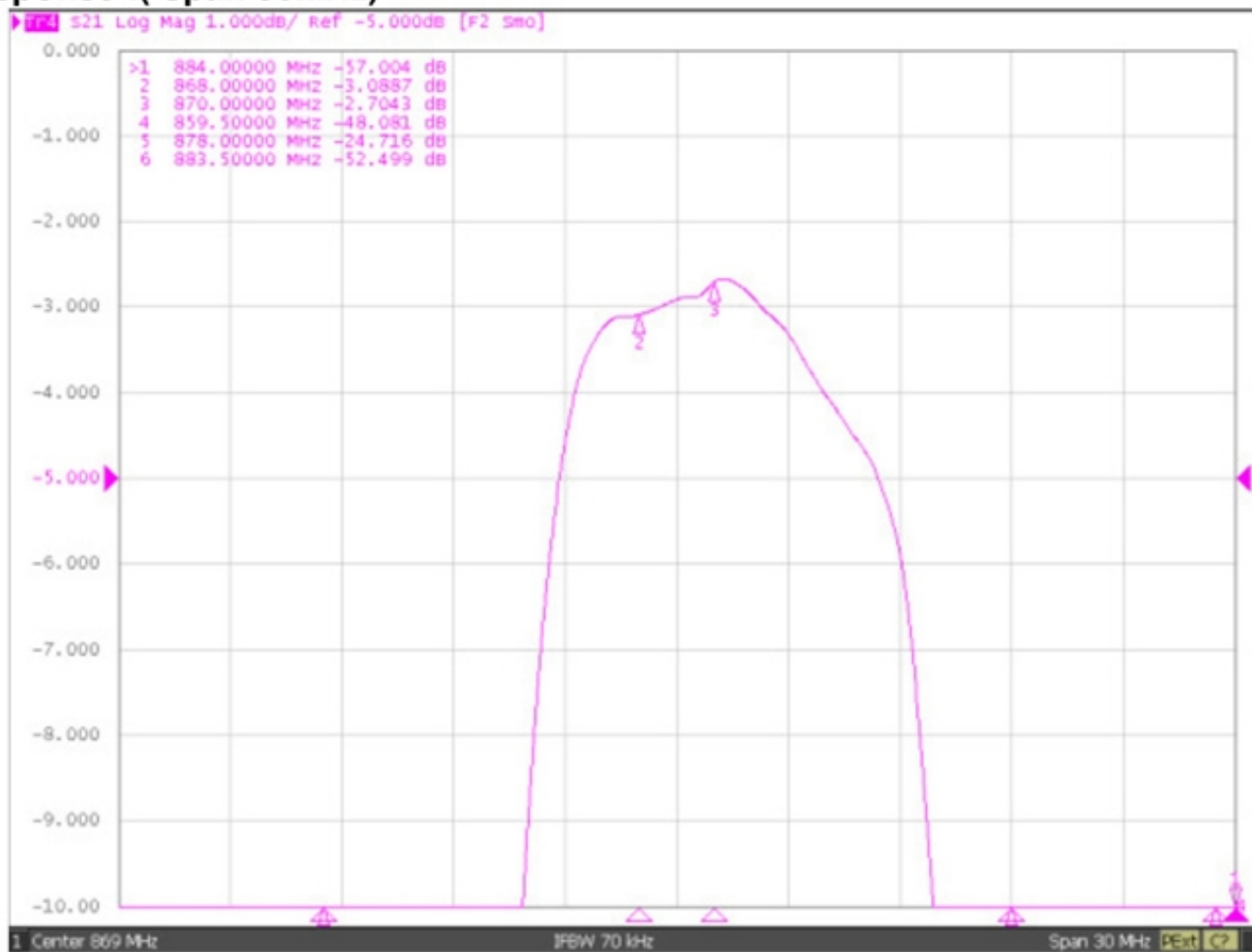
Others: Ground



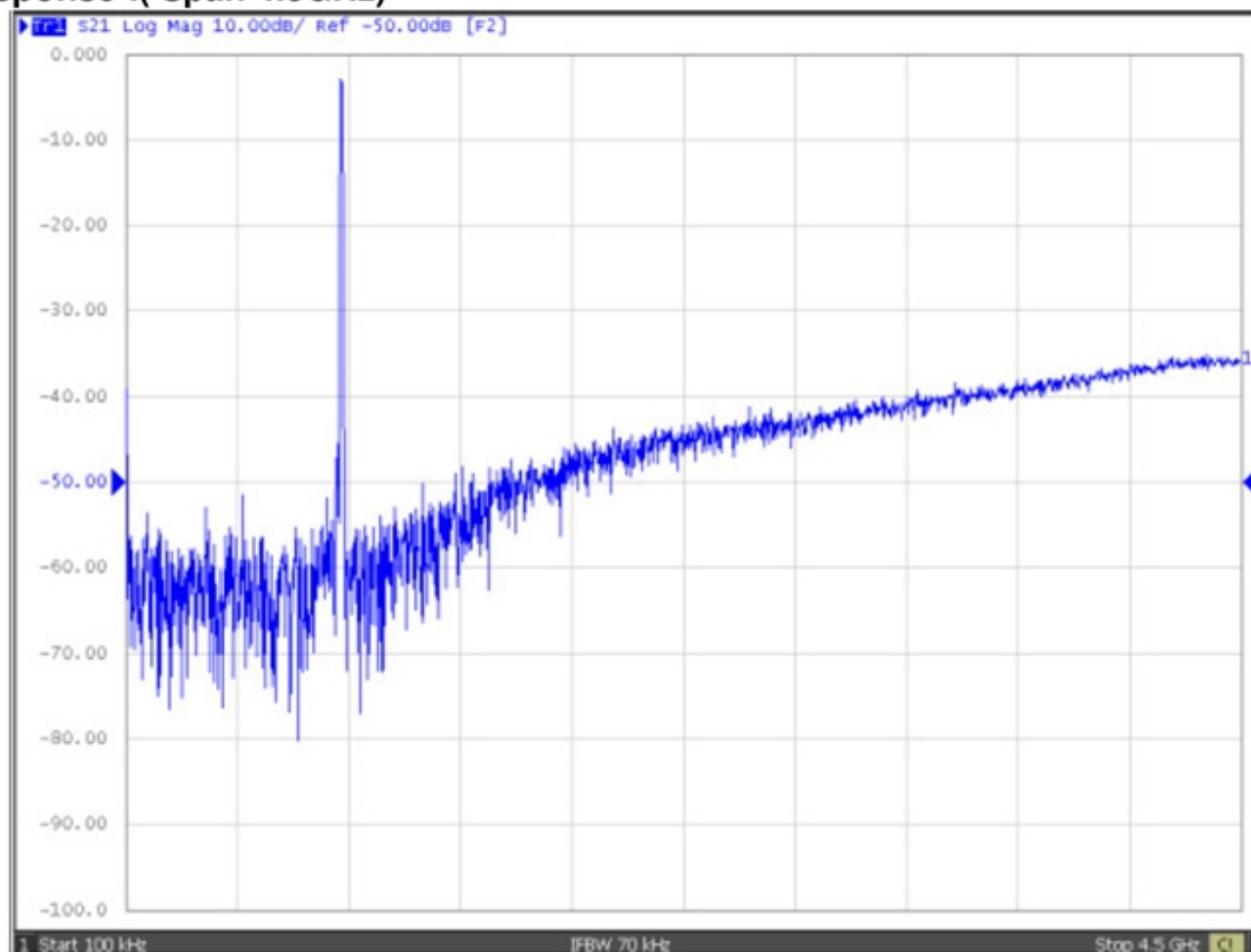
D. Frequency Characteristics: S21 response :(Span 200MHz)



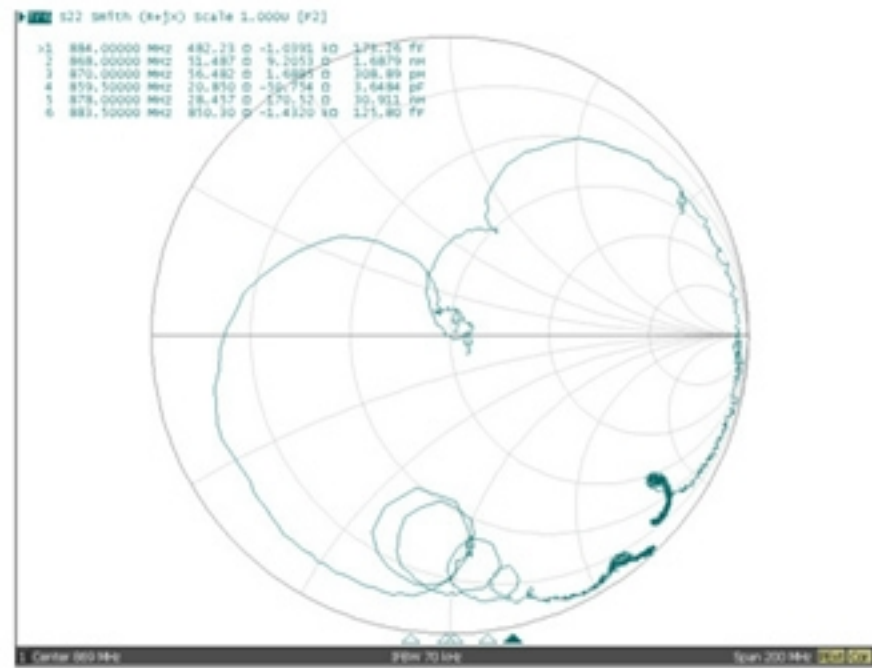
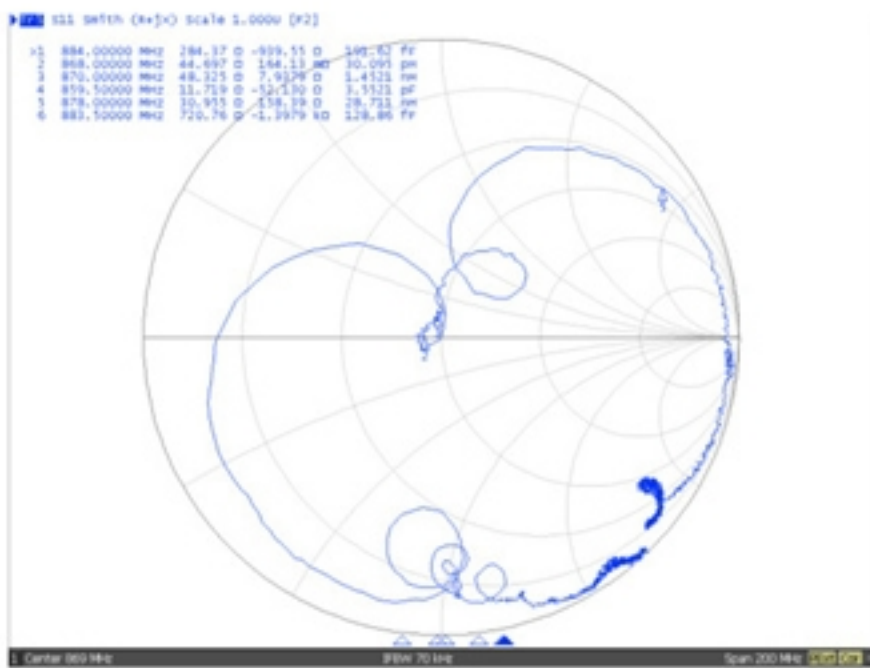
S21 response :(Span 30MHz)



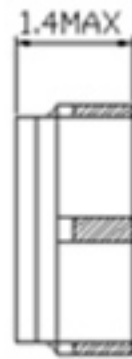
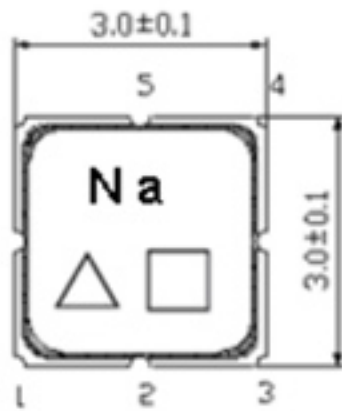
S21 response :(Span 4.5GHz)



S11/S22 response:

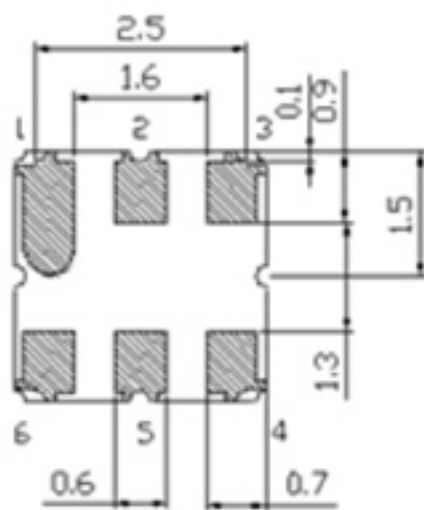


E.OUTLINE DRAWING:



Unit : mm

Not Specified Tolerance : +/-0.15 mm



Pin No.	Symbol	Function
1	GND	Ground
2	IN	Input
3	GND	Ground
4	GND	Ground
5	OUT	Output
6	GND	Ground

Data code : See the table

WK	01	02	...	26	27	28	...	52
Code	A	B	...	Z	a	b	...	z

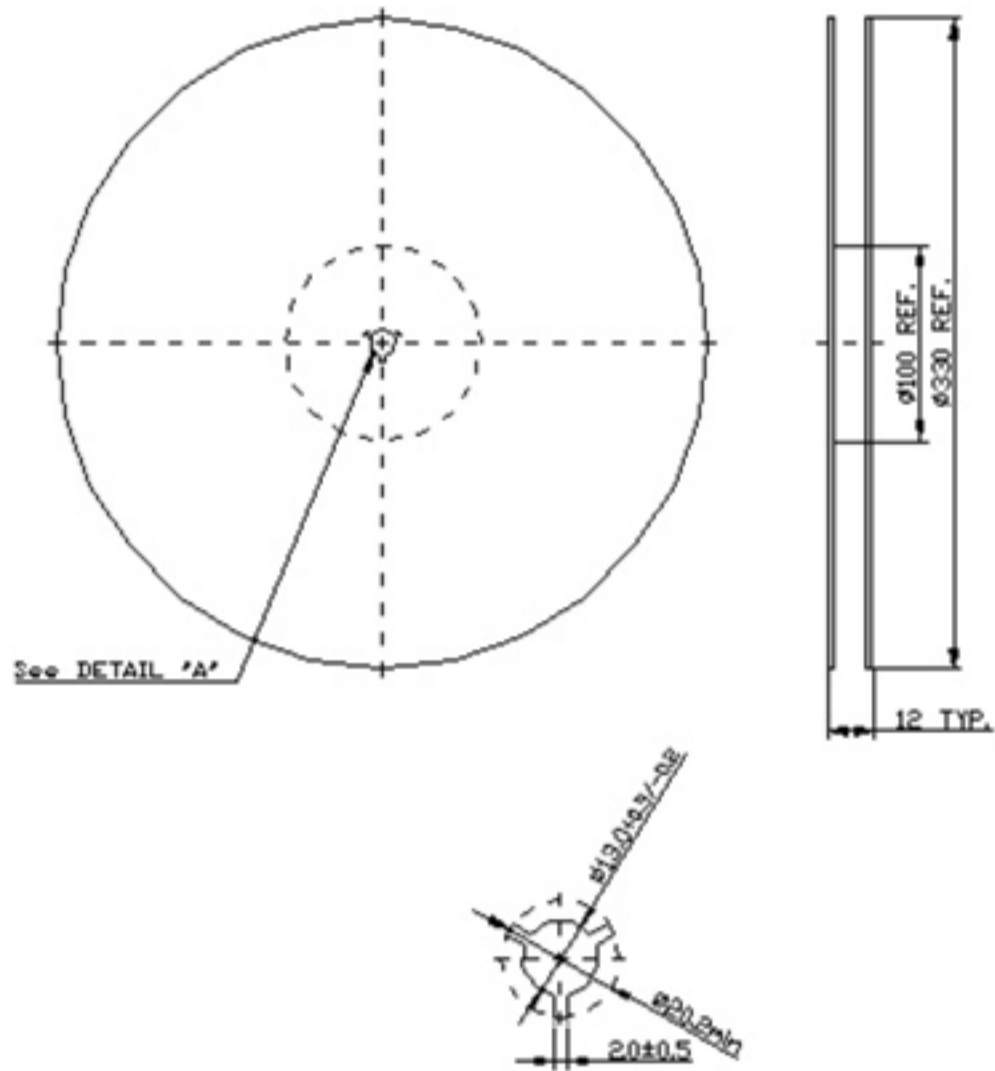
△ Year code : See the table

Year	2008	2009	2010	2011	...	2019	2020
Code	8	9	0	1	...	9	0

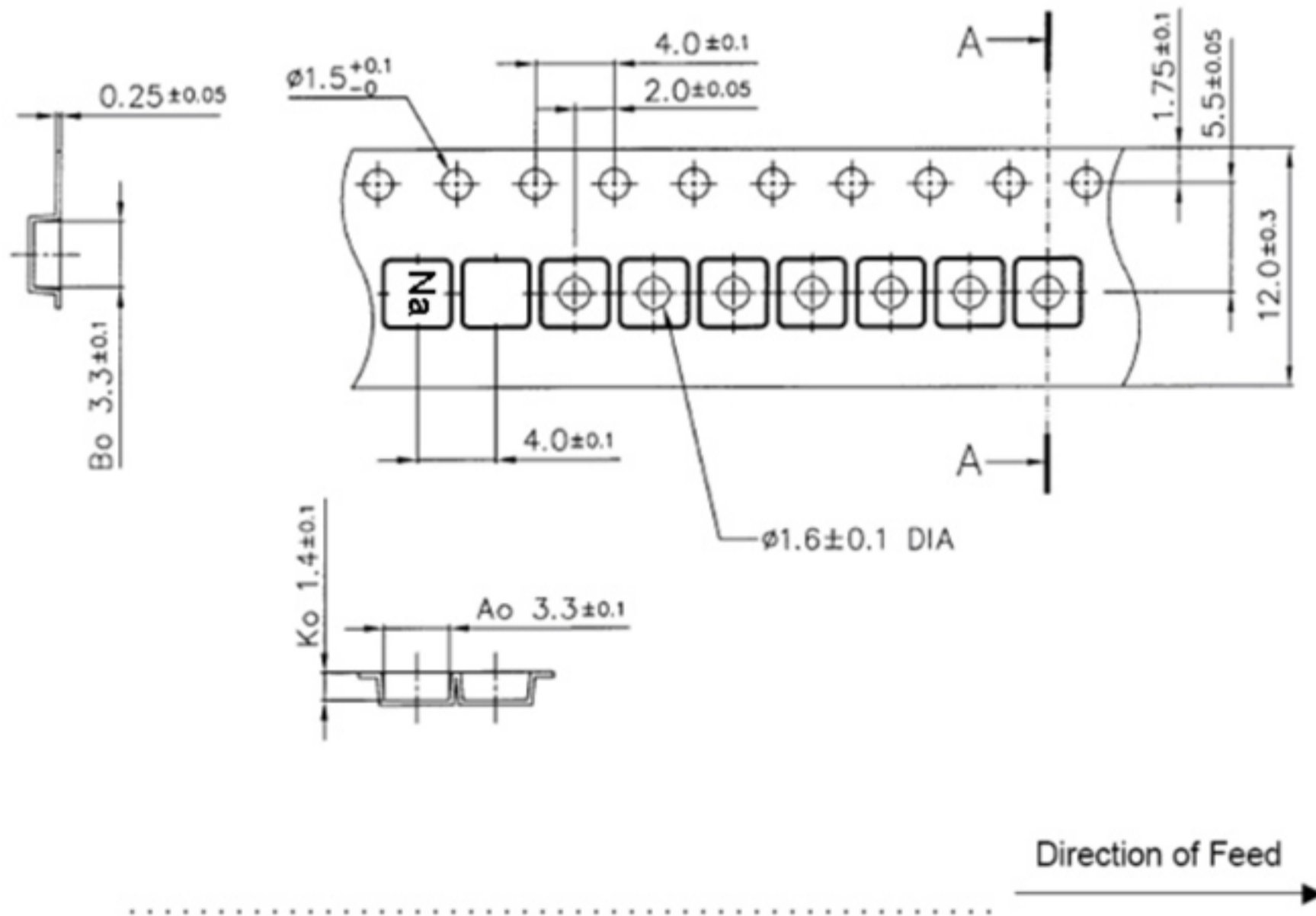
F. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION.



G. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

