

SAW Filter 1900 MHz (BW 40Hz) SMD 1.1x0.9x0.5mm

MODEL NO.:TA2018C

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +105°C
5. Moisture Sensitivity Level: Level 3(MSL3)

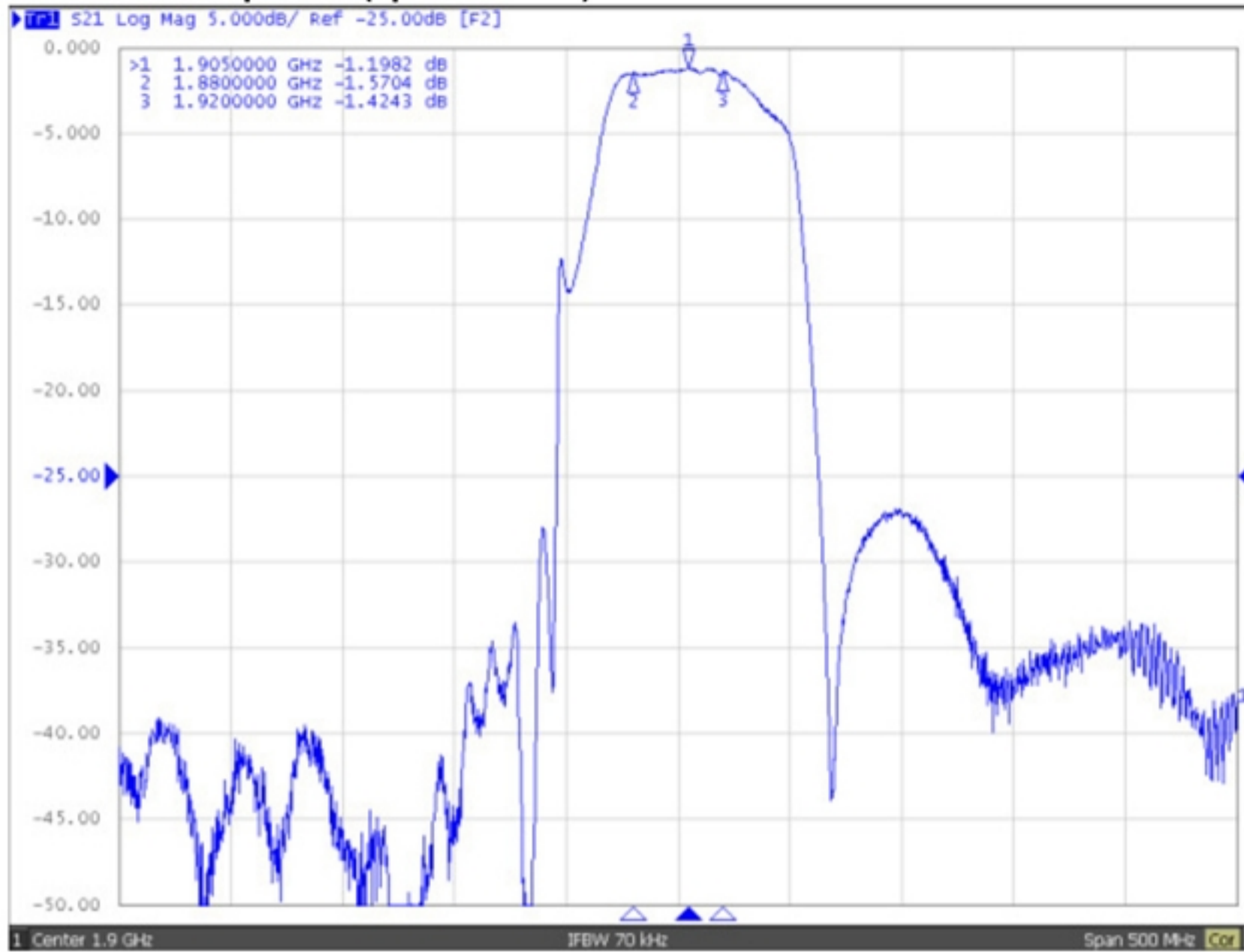
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

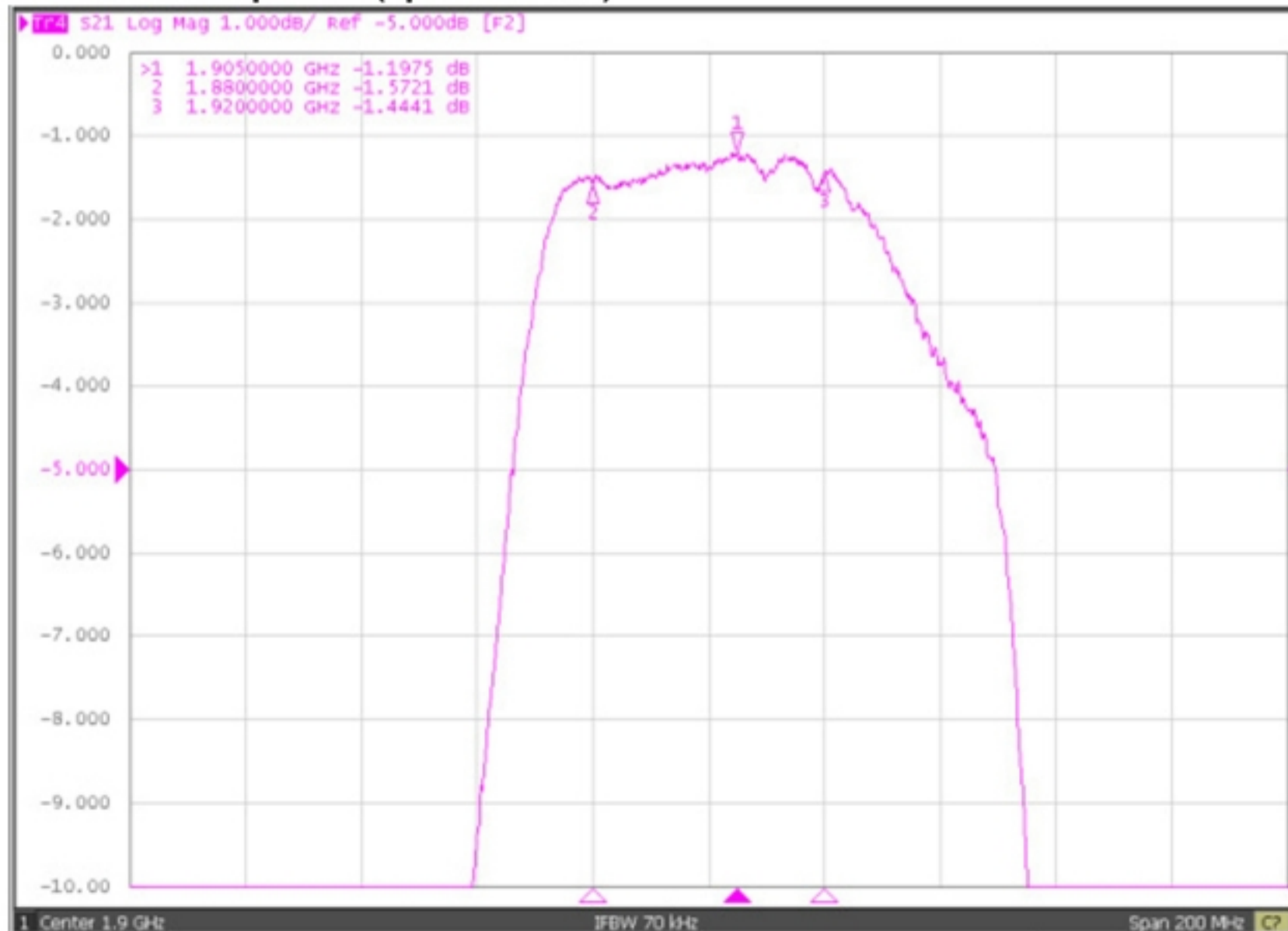
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	1900	-	-
Insertion Loss (1880~1920 MHz) IL	dB	-	1.4	2	-
Insertion Loss (1920~1930 MHz) IL	dB	-	3.0	4.0	-
VSWR (1880~1920 MHz)		-	1.4	2	
Amplitude ripple (1880~1920 MHz)	dB	-	0.5	1.4	-
Attenuation					-
10 ~ 1710 MHz	dB	30	35	-	
1710 ~ 1805 MHz	dB	35	43	-	-
1805 ~ 1840 MHz	dB	25	30	-	-
1840 ~ 1850 MHz	dB	10	13	-	-
2000 ~ 2110 MHz	dB	25	30	-	
2110 ~ 2200 MHz	dB	30	35	-	-
2200 ~ 4000 MHz	dB	30	38	-	-
4000 ~ 6000 MHz	dB	27	34	-	-
				-	-
Package size	mm	SMD 1.1x0.9			

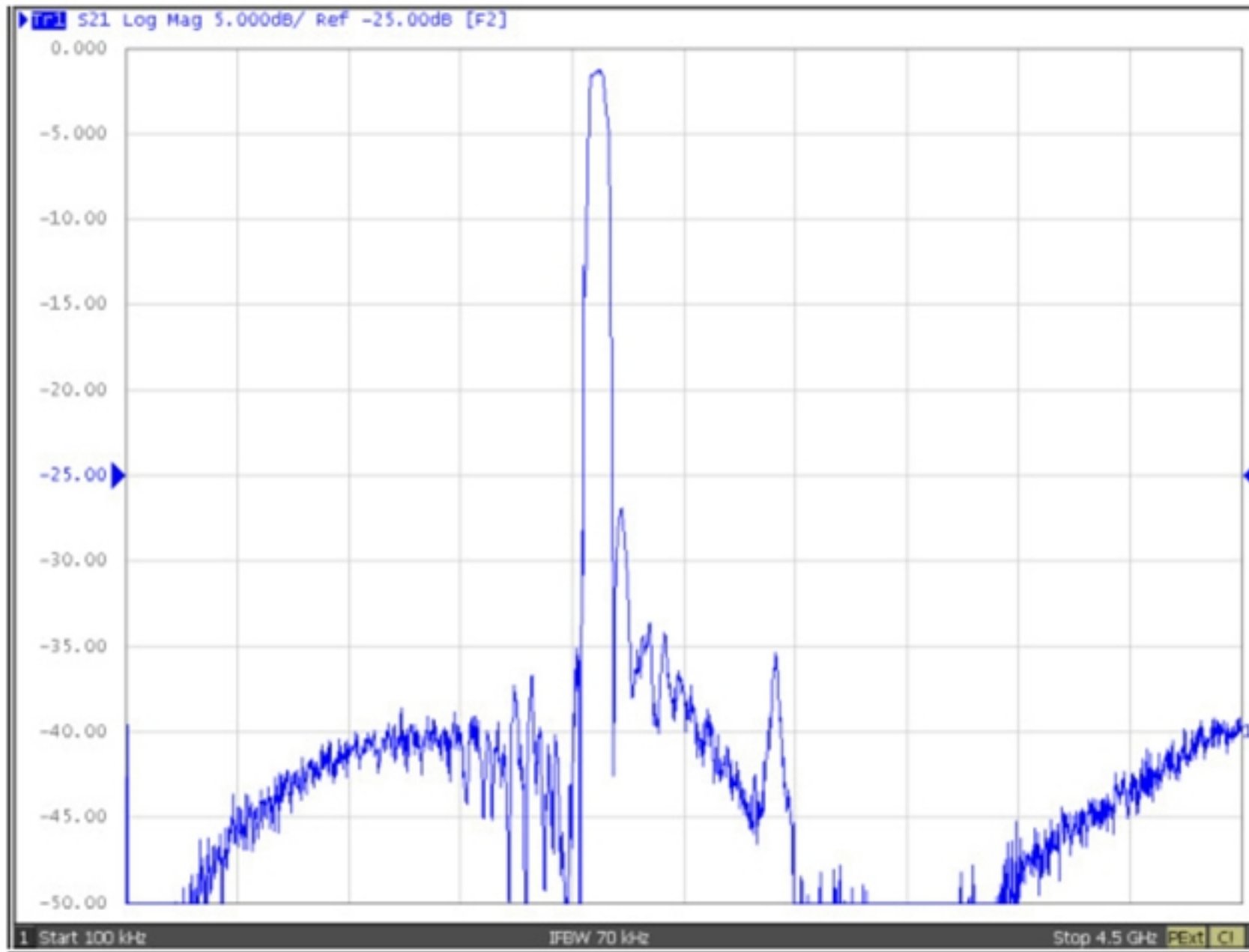
C.FREQUENCY CHARACTERISTICS: S21 response: (span 500MHz)



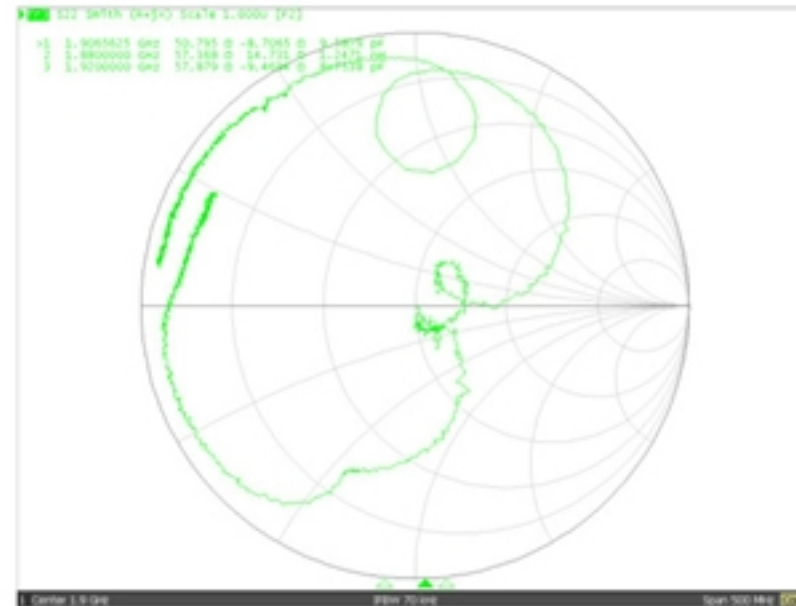
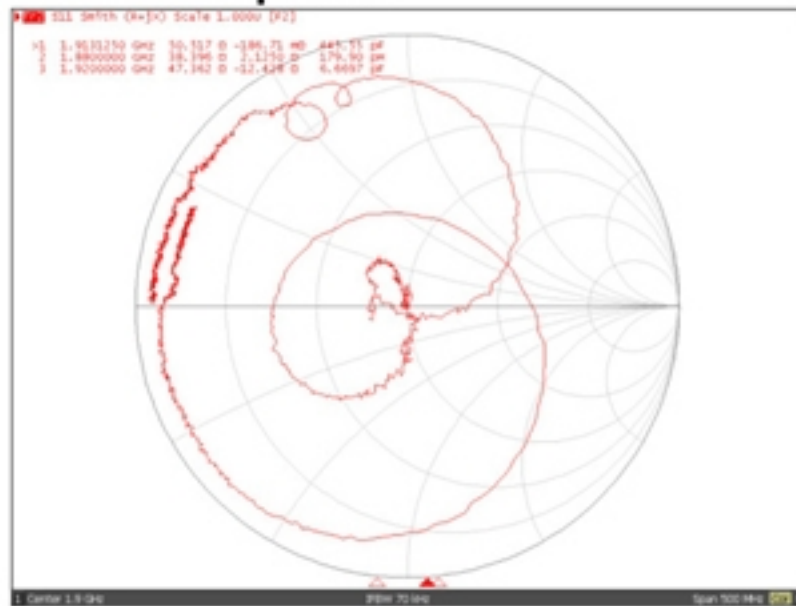
S21 response: (span 200MHz)



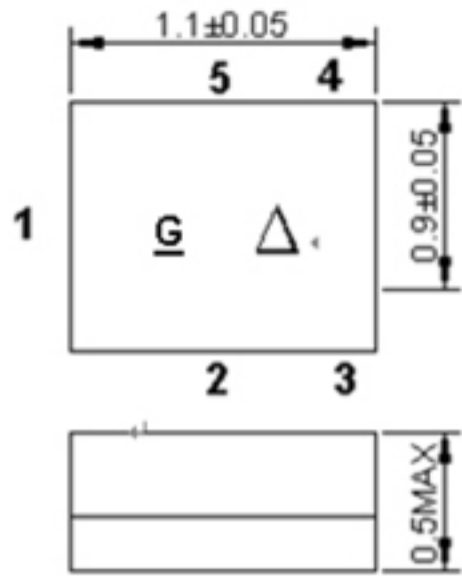
S21 response: (span 4.5GHz)



S11/S22 response:



D. OUTLINE DRAWING:

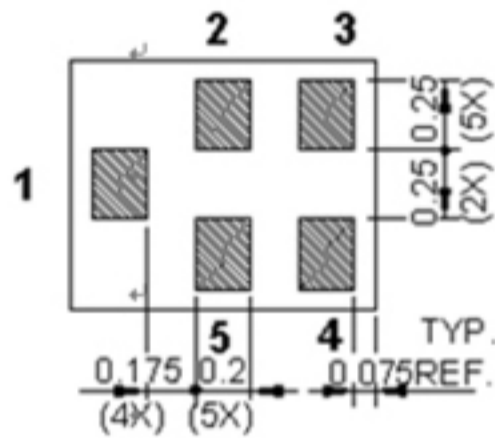


All tolerances are +/-0.05 mm unless otherwise specified

Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm

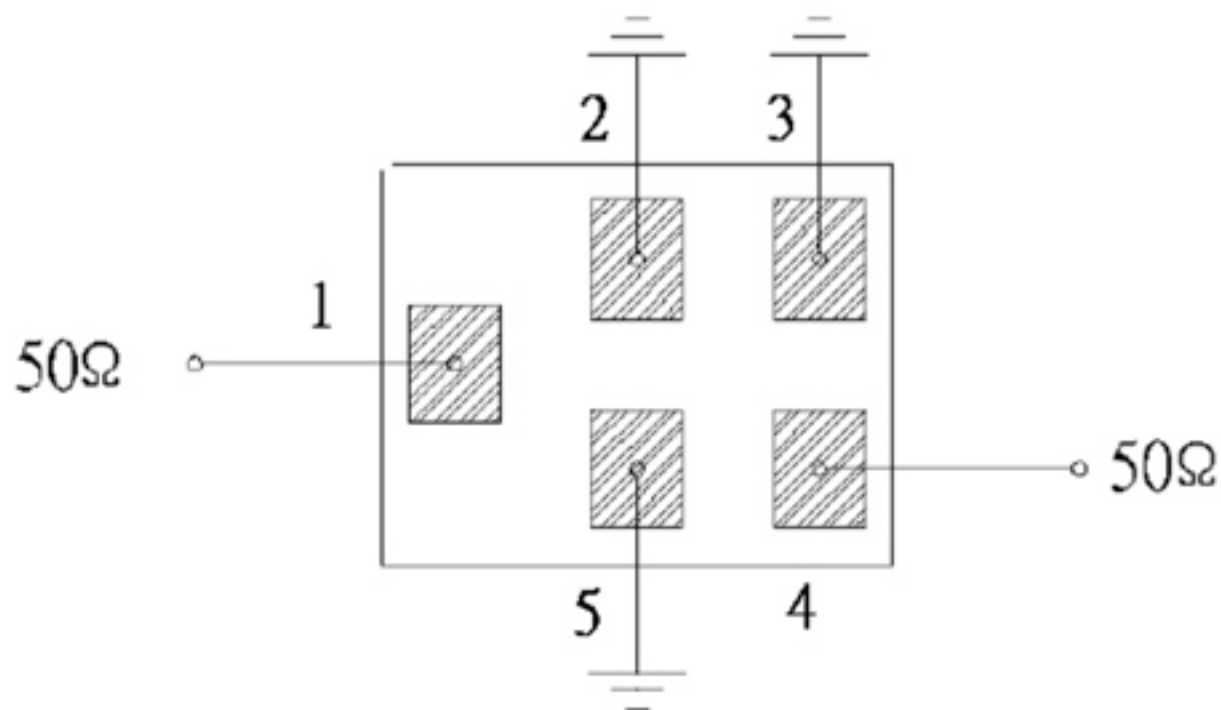


Pin No.⊕	Symbol⊕	Function⊕
1⊕	IN⊕	Input⊕
2⊕	GND⊕	Ground⊕
3⊕	GND⊕	Ground⊕
4⊕	OUT⊕	Output⊕
5⊕	GND⊕	Ground⊕

Δ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>i</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

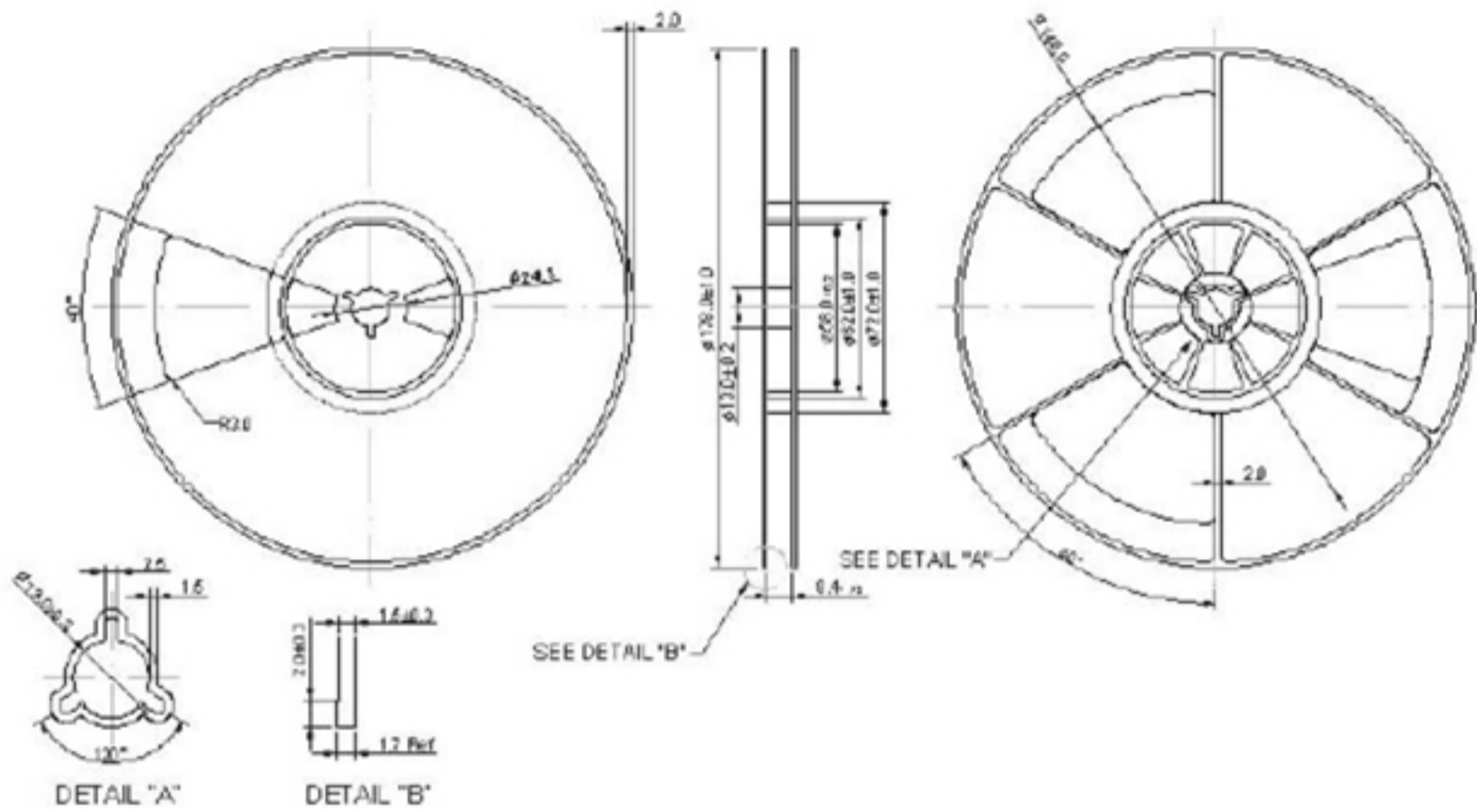
E. MEASUREMENT CIRCUIT:



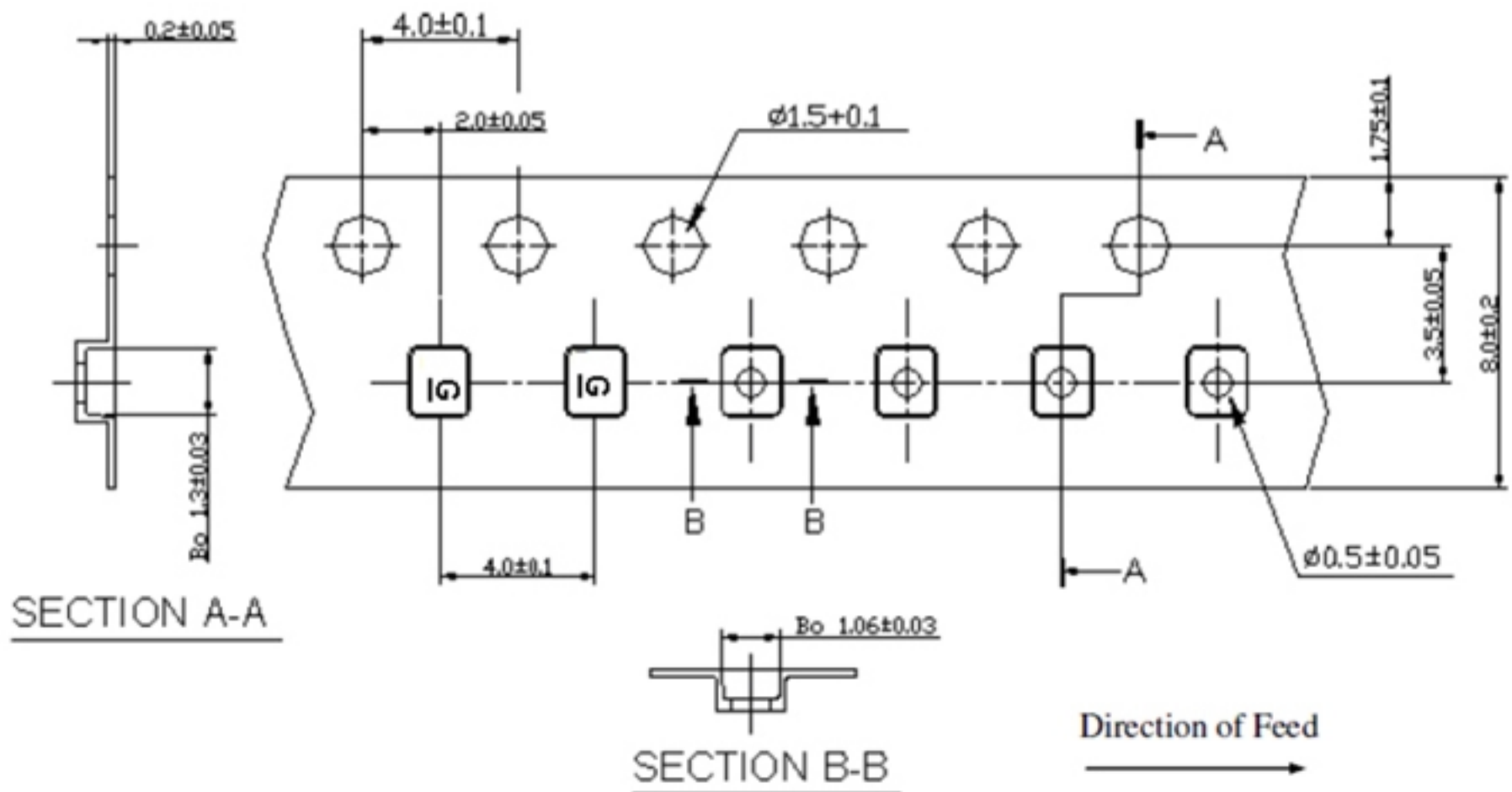
F. PACKING:

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.

