

SAW Bandpass Filter – F2G3H

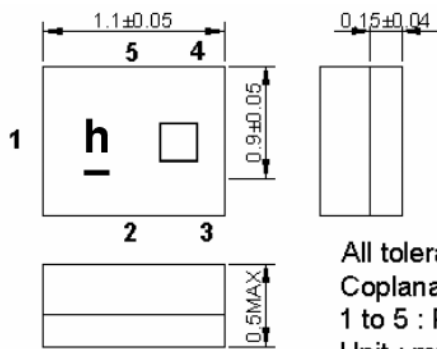
2332.5MHz – 25MHz



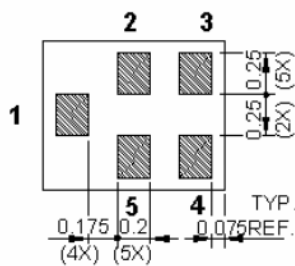
Features

- RF Bandpass Filter
- No matching 50Ω single-ended operation
- Surface Mounted Device Package (1.1 mm * 0.9 mm * 0.5mm)
- RoHS/RoHS2 (2015/863/EU) Compliant
- This part is compliant with AEC-Q200

Package Dimensions



All tolerances are +/-0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.
 1 to 5 : Pin No.
 Unit : mm



1 : Input
 4 : Output
 2, 3, 5 : Ground

Maximum Ratings

Rating		Value	Unit
DC Voltage (between any Terminals)	V DC	3	V
RF Power (in BW)	P	10	dBm
Operating Temperature Range	TA	-40 ~ +105	°C
Storage Temperature Range	Tstg	-40 ~ +125	°C
ESD Voltage (HB)	VESD	100	V
Moisture Sensitivity Levels	MSL	2A	

** Electrostatics Sensitive Device (ESD)

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F2G3H	
		Rev. Date	2019-07-19	
		Rev.	NCUD01-AS01	1/6

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Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	2332.5	-	MHz
Insertion Loss @ 25 °C (2320 ~ 2345 MHz)	-	0.35	0.6	dB
Insertion Loss @ Max (2320 ~ 2345 MHz)	-	0.35	0.63	
Ripple (2320 ~ 2345 MHz)	-	0.08	0.35	dB
VSWR (2320 ~ 2345 MHz)	-	1.15	1.5	-
Attenuation				dB
698 ~ 894 MHz	7	10	-	
1710 ~ 1750 MHz	5	8	-	
1850 ~ 1990 MHz	5	8	-	
2400 ~ 2484 MHz	7	10.5	-	
2496 ~ 2690 MHz	6	9.5	-	
3400 ~ 3500 MHz	9	10	-	
Input/Output Impedance		50		Ohms

Notes :

- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

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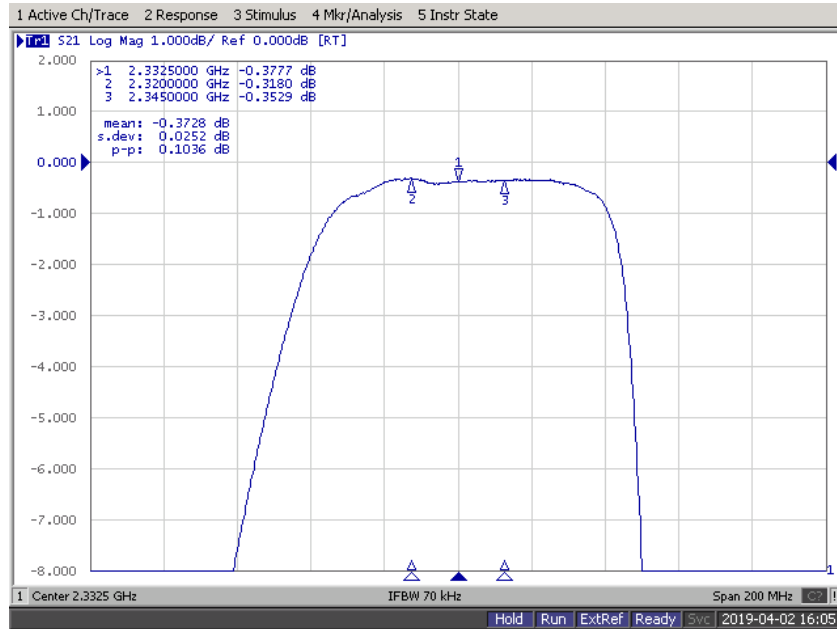
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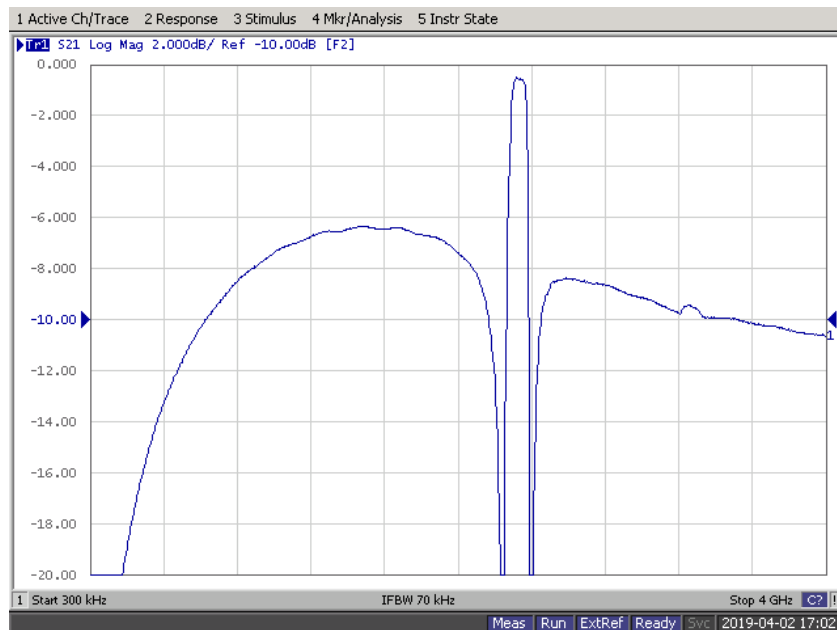



Typical Performance (at 25°C)

- Insertion Loss & Ripple



- Attenuation



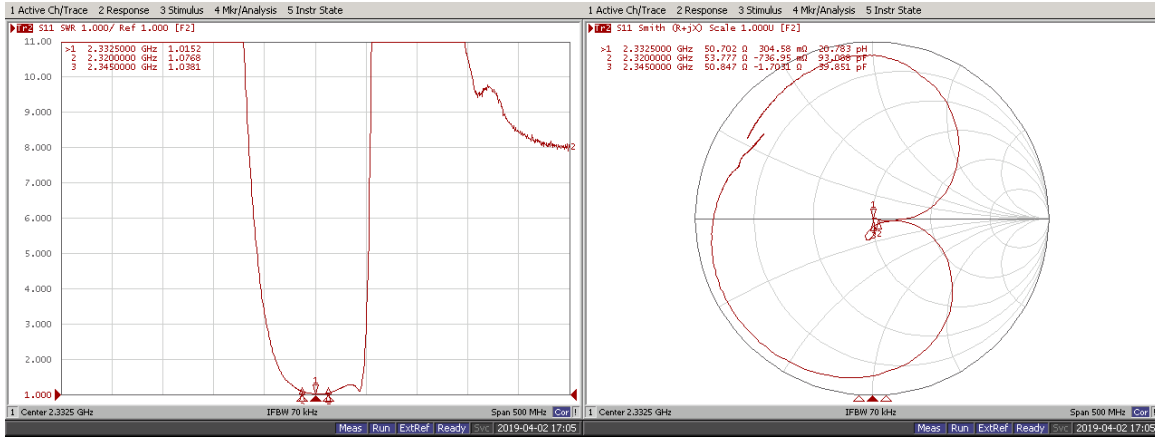
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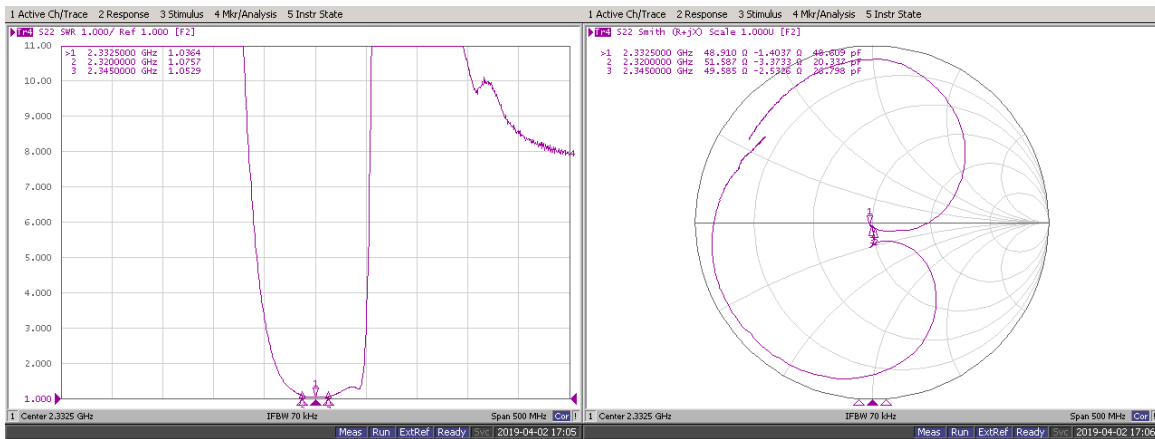
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- Input / Output VSWR



- Input / Output Smith Charts



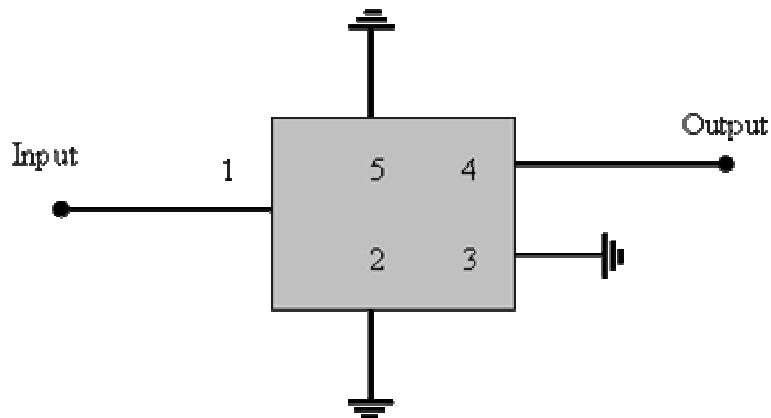
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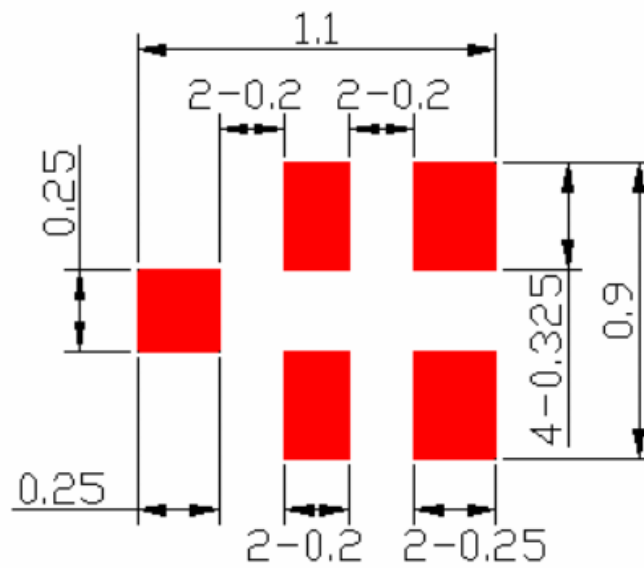
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Measurement circuit



PCB Footprint



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Marking Configuration

* Laser Marking

h¹⁾ ²⁾

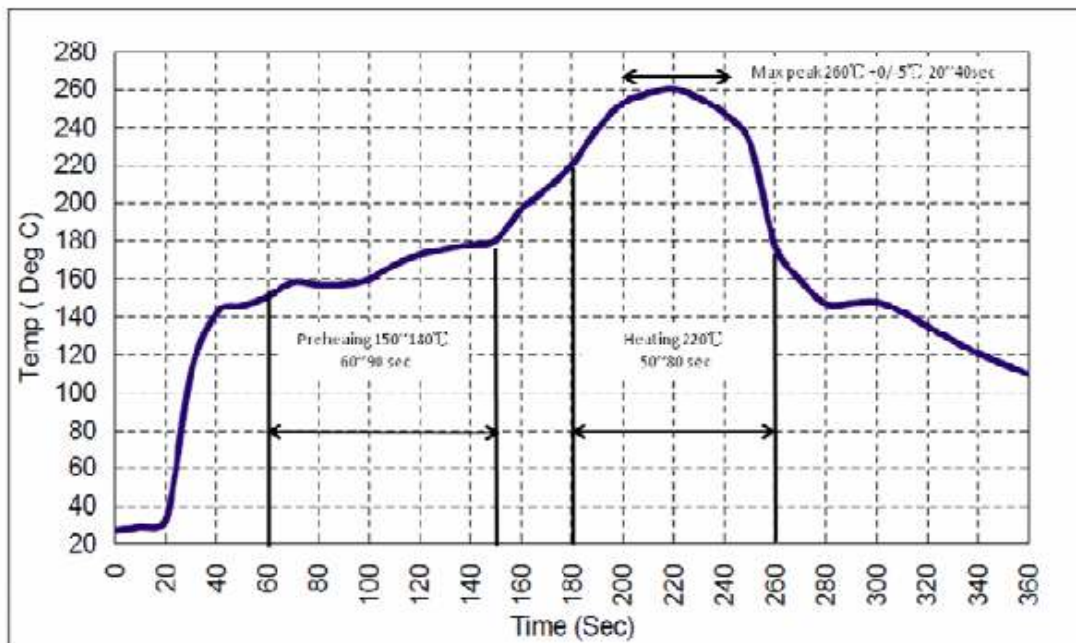
1) h: Model Name

2) : Year/Month code(Flow 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	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	i	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z

Reflow Condition

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 245~260°C peak (min. 10sec).
4. Time : 2 times.



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