

SAW Bandpass Filter – F2G3M

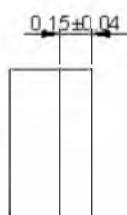
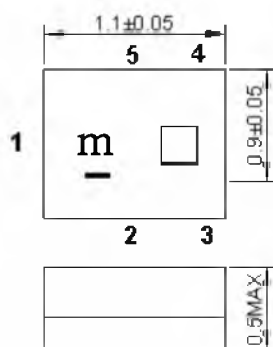
2332.5MHz – 25MHz



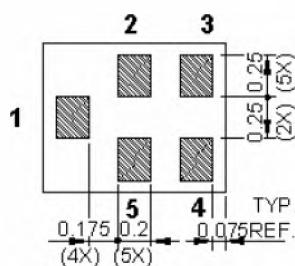
Features

- 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)

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Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	2332.5	-	MHz
Insertion Loss @ 25 °C (2320 ~ 2345 MHz)	-	0.35	0.55	dB
Insertion Loss @ Max (2320 ~ 2345 MHz)	-	0.35	0.58	
Ripple (2320 ~ 2345 MHz)	-	0.08	0.35	dB
VSWR (2320 ~ 2345 MHz)	-	1.15	1.5	-
Attenuation				dB
698 ~ 1990MHz	7	9.5	-	
2400 ~ 2484 MHz	7	10.5	-	
2484 ~ 3400 MHz	8	10	-	
3400 ~ 3500 MHz	9	10.5	-	
Input/Output Impedance		50		Ohms

Notes :

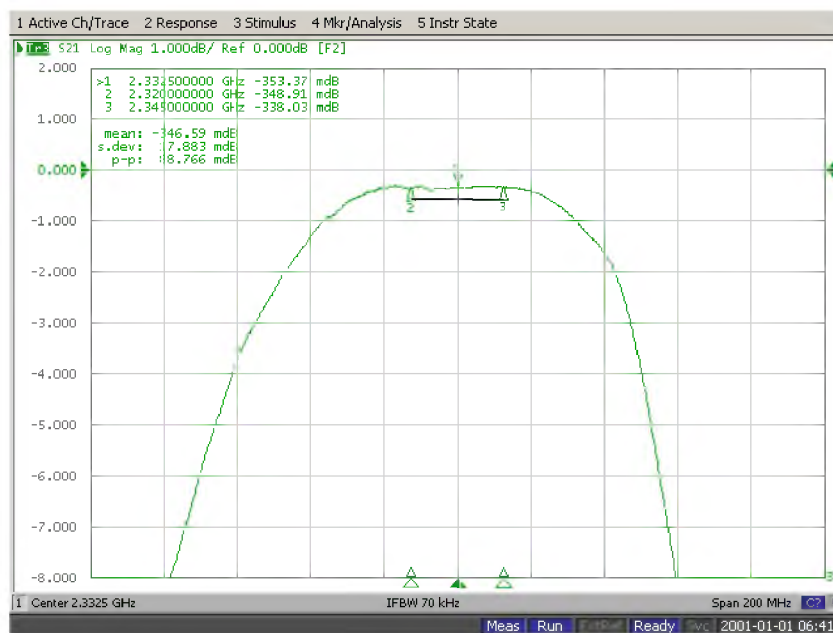
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

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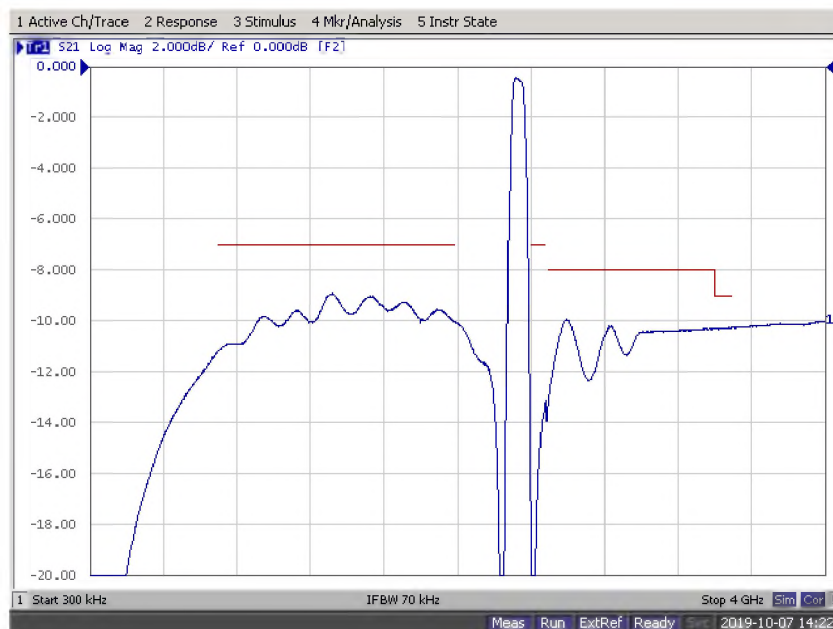
2332.5MHz – 25MHz



- Insertion Loss & Ripple

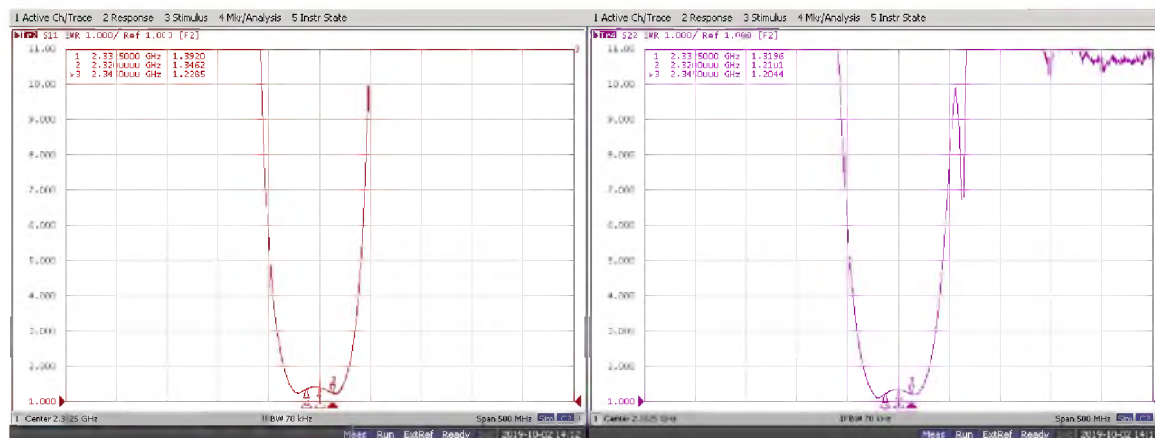


- Attenuation

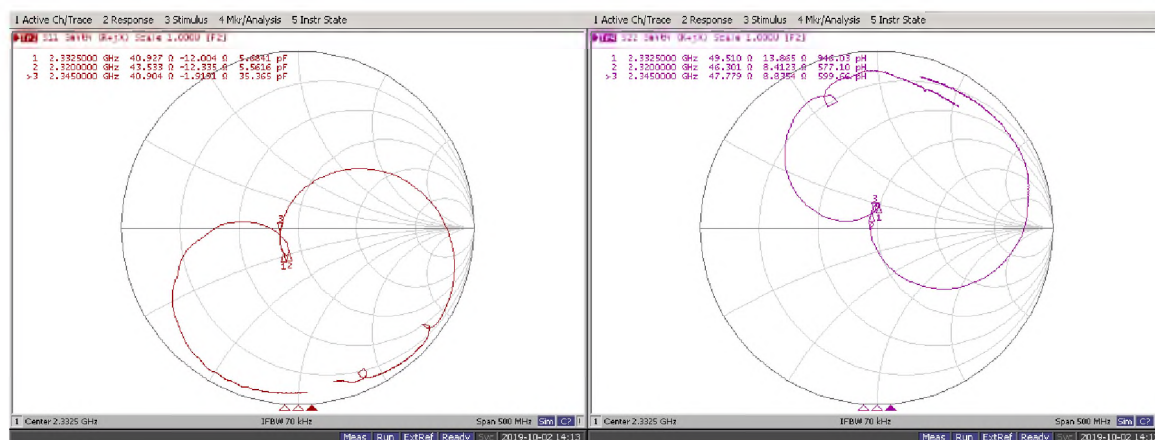


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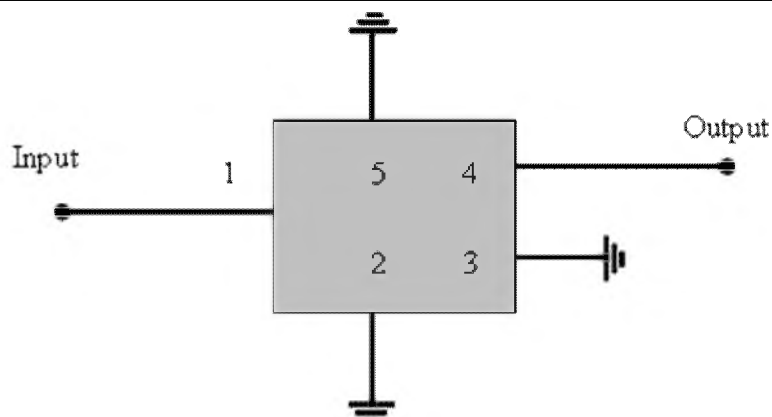


- Input / Output Smith Charts

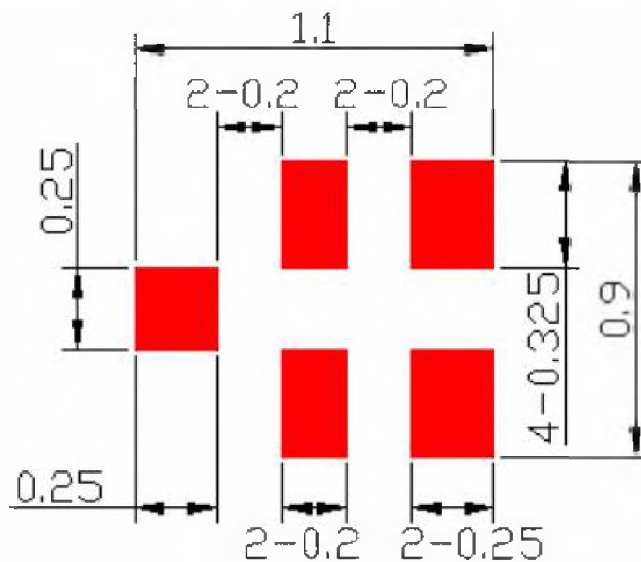


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PCB Footprint



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* Laser Marking

m¹⁾ ☐²⁾

1) m: 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	<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>j</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>

Reflow Condition

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 245~260℃ peak (min. 10sec).
4. Time : 2 times.

