

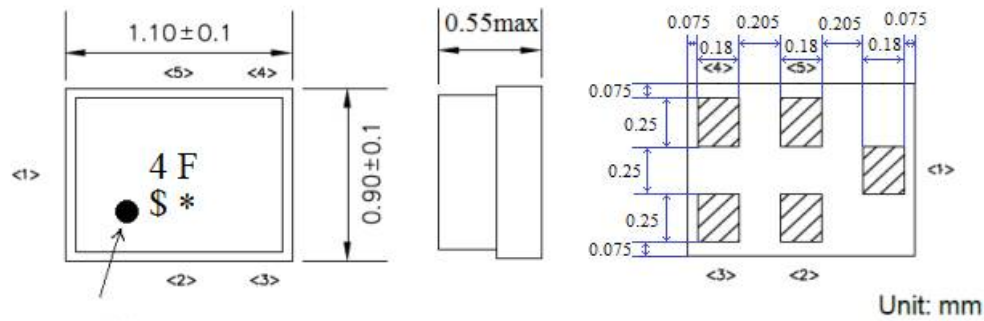
SAW Bandpass Filter FG171



Features

- RF bandpass filter
- Low-loss GPS L5 filter
- Usable bandwidth 25.0 MHz
- Chip Scale Package (CSP) (1.1mm × 0.9mm)
- RoHS/RoHS2 (2015/863/EU) Compliant
- This part is compliant with AEC-Q200

Package Dimensions



Dot Marking

Pin Configuration	
1	Input
4	Output
2, 3, 5	Ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	25	85
Storage Temperature Range	°C	-40	-	85
Permissible DC Voltage	V	-	-	5

Electrostatics Sensitive Device (ESD)

	ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501	Part No.	FG171	
		Rev. Date	2021-02-02	
		Rev.	AS01	1/6

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Specifications

Fc = 1176.5MHz

		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	1176.5	-
Insertion Loss (1164.0 ~ 1189.0 MHz)	dB	-	1.2	1.6
Amplitude Ripple (1164.0 ~ 1189.0 MHz)	dB	-	0.4	1.0
VSWR (1164.0 ~ 1189.0 MHz)		-	1.4	2.0
Absolute attenuation				
698.0 ~ 960.0 MHz		33	36	-
1427.0 ~ 1511.0 MHz		35	38	-
1700.0 ~ 2200.0 MHz		30	39	-
2300.0 ~ 2400.0 MHz	dB	39	47	-
2400.0 ~ 2483.0 MHz		38	49	-
2483.0 ~ 2690.0 MHz		36	52	-
3400.0 ~ 3800.0 MHz		30	45	-
4400.0 ~ 4900.0 MHz		25	42	-
5150.0 ~ 5950.0 MHz		24	42	-
Input/Output impedance	Ohm	-	50	-

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

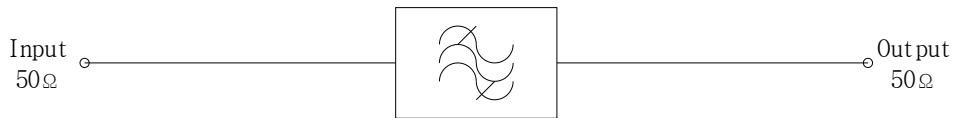
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Matching Schematic

(Actual matching values may vary due to PCB layout and parasitics)



Marking Configuration

4 F¹⁾
 ●²⁾ \$^{* 3)}

1) Part Number

2) Dot Marking

3) Year/Month & date Code (Follow the table)

* Ink or Laser Marking available

2019	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2023	A	B	C	D	E	F	G	H	J	K	L	M
2027												
2020	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2024	N	P	Q	R	S	T	U	V	W	X	Y	Z
2028												
2021	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2025	a	b	c̄	d	e	f	g	h	j	k	l	m
2029												
2022	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2026	n	o	p	q	r	s	t	u	v	w	x	y
2030												

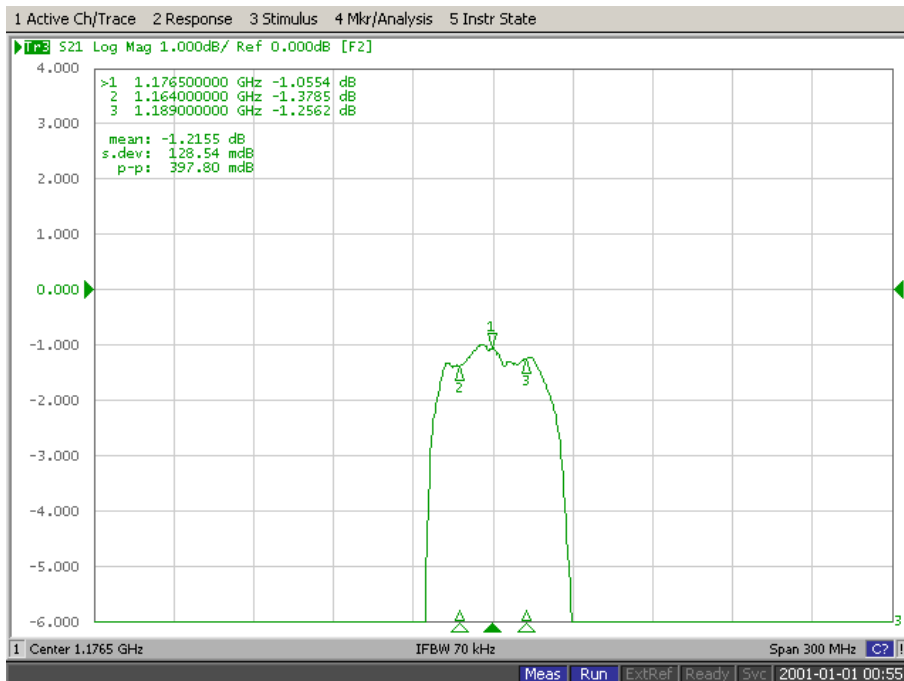
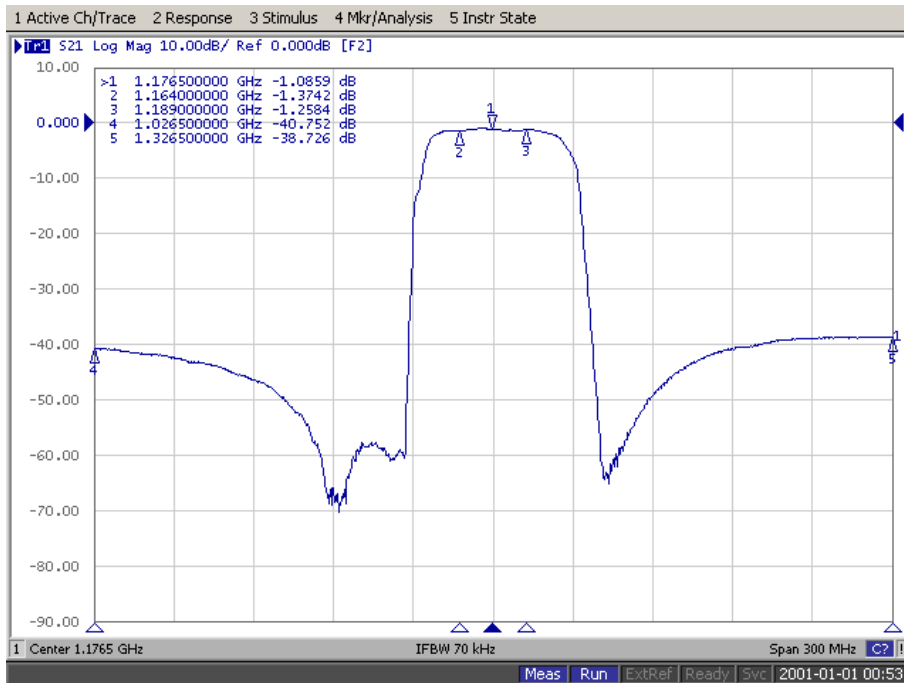
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code	A	B	C	D	E	F	G	H	J	K	
date	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	
code	L	M	N	P	Q	R	S	T	U	V	
date	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st
code	W	X	Y	Z	a	b	c̄	d	e	f	g

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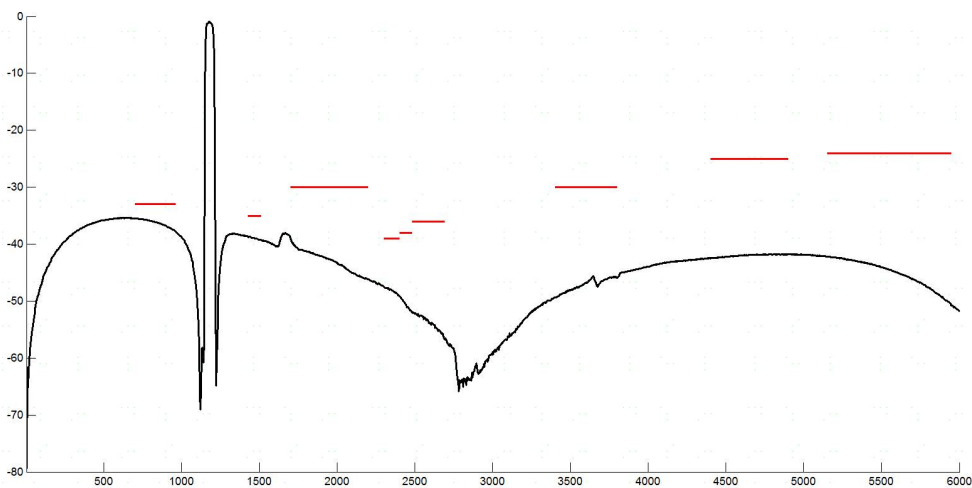
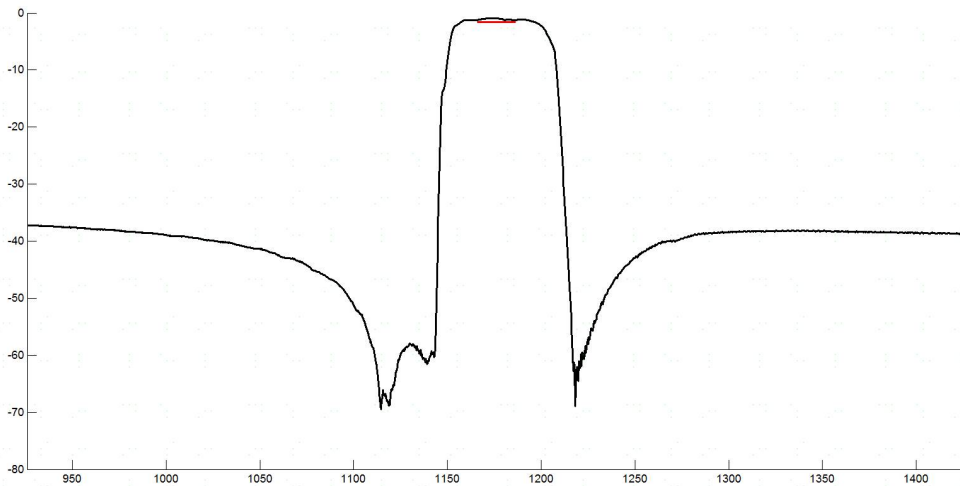
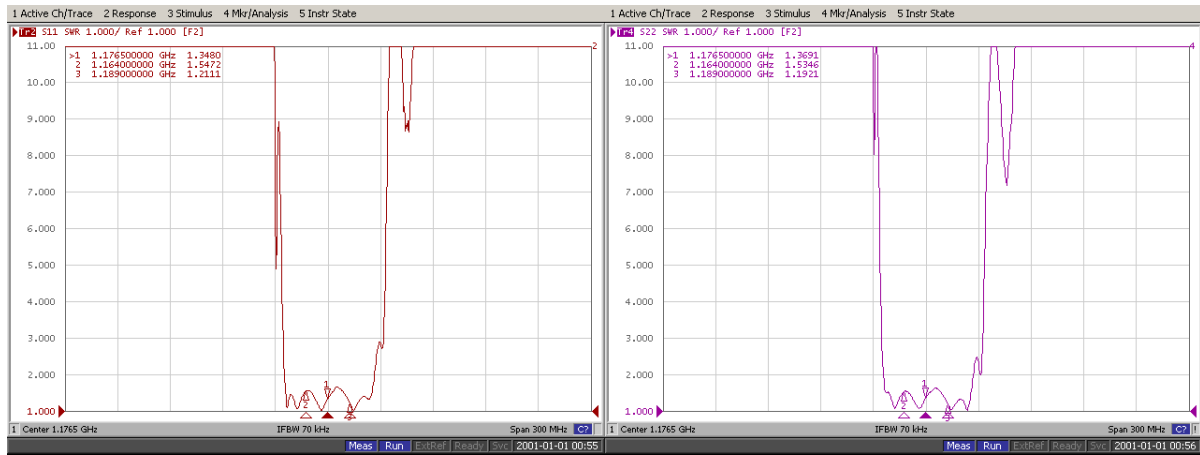
Typical Performance (at 25°C)




ITF Co., Ltd.
102-901, 22, Samjak-ro, Ojeong-gu,
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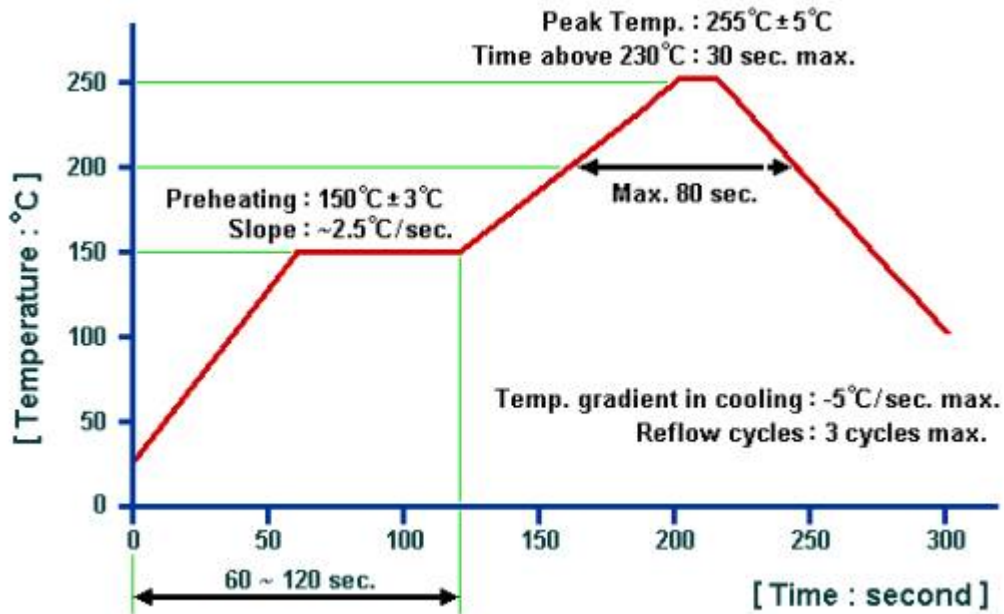



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Reflow Condition



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