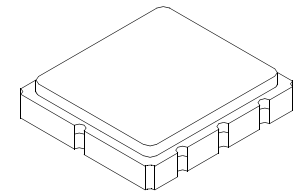


SF2670C

**370/390
MHz**



SM5050-8

MAXIMUM RATING:

- Input Power Level: 12 dBm
- DC Voltage : 3 V
- Operating Temperature: -30°C to +85°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensitivity Level: Level 1(MSL1)
- AEC-Q200 Qualified

ELECTRICAL CHARACTERISTICS:

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

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

Item (Filter 1)	Unit	Min	Typ.	Max
Center frequency	MHz	-	370	-
Insertion Loss (360 – 380 MHz)	dB	-	2.4	3.0
Amplitude Ripple (360 – 380 MHz)	dB	-	1.0	2.0
Return Loss (360 – 380 MHz)	dB	8.0	11.0	-
Attenuation (Reference level from 0 dB)				
10 – 170 MHz	dB	35	55	-
170 – 315 MHz	dB	30	52	-
315 – 340 MHz	dB	20	45	-
400 – 420 MHz	dB	15	22	-
420 – 440 MHz	dB	25	44	-
440 –660 MHz	dB	30	44	-
660– 1000 MHz	dB	25	37	-
Temperature coefficient of Frequency	ppm/K	-36		

Item (Filter 2)	Unit	Min	Typ.	Max
Center frequency	MHz	-	390	-
Insertion Loss (380 – 400 MHz)	dB	-	2.4	3.0
Amplitude Ripple (380 – 400 MHz)	dB	-	1.0	2.0
Return Loss (380 – 400 MHz)	dB	8.0	11.0	-
Attenuation (Reference level from 0 dB)				
10 – 190 MHz	dB	35	55	-
190 – 335 MHz	dB	30	51	-
335 – 360 MHz	dB	25	45	-
420 – 440 MHz	dB	15	22	-
440 – 460 MHz	dB	25	55	-
460 – 680 MHz	dB	30	62	-
680– 1000 MHz	dB	25	44	-
Temperature coefficient of Frequency	ppm/K	-36		

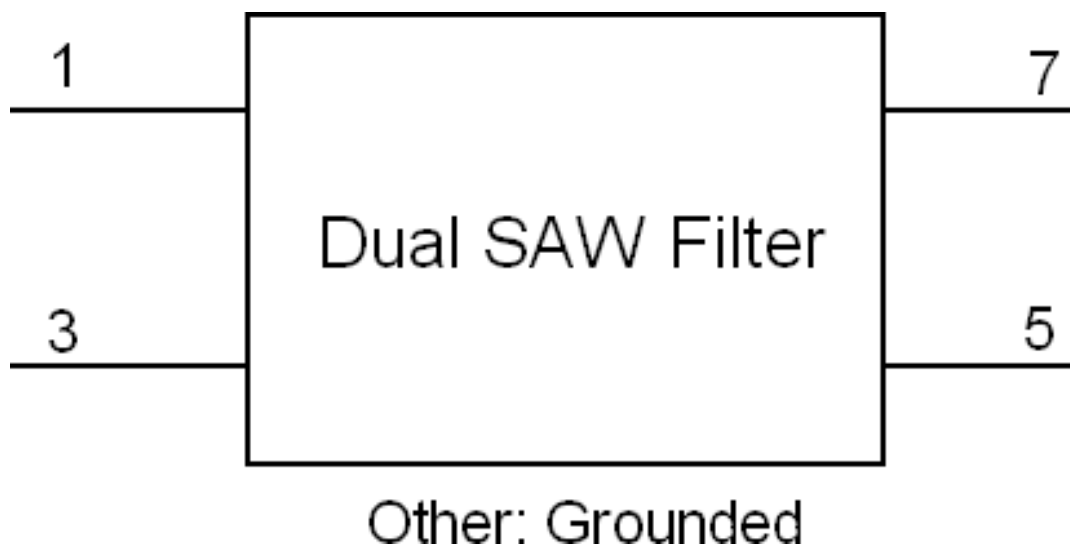


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

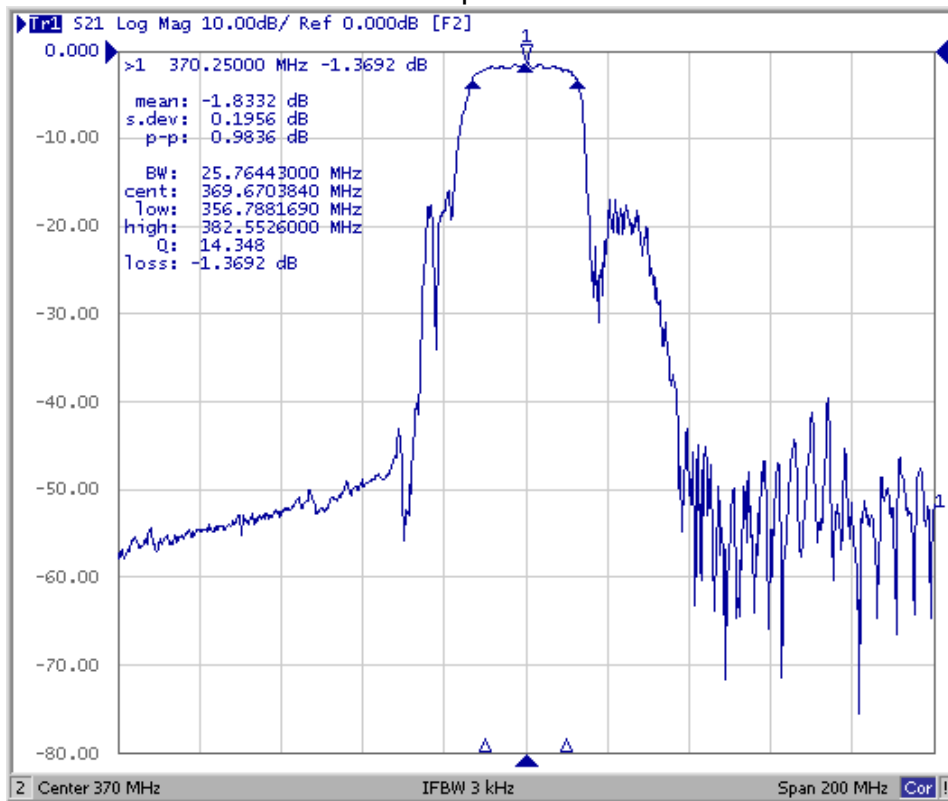
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

TEST CIRCUIT:

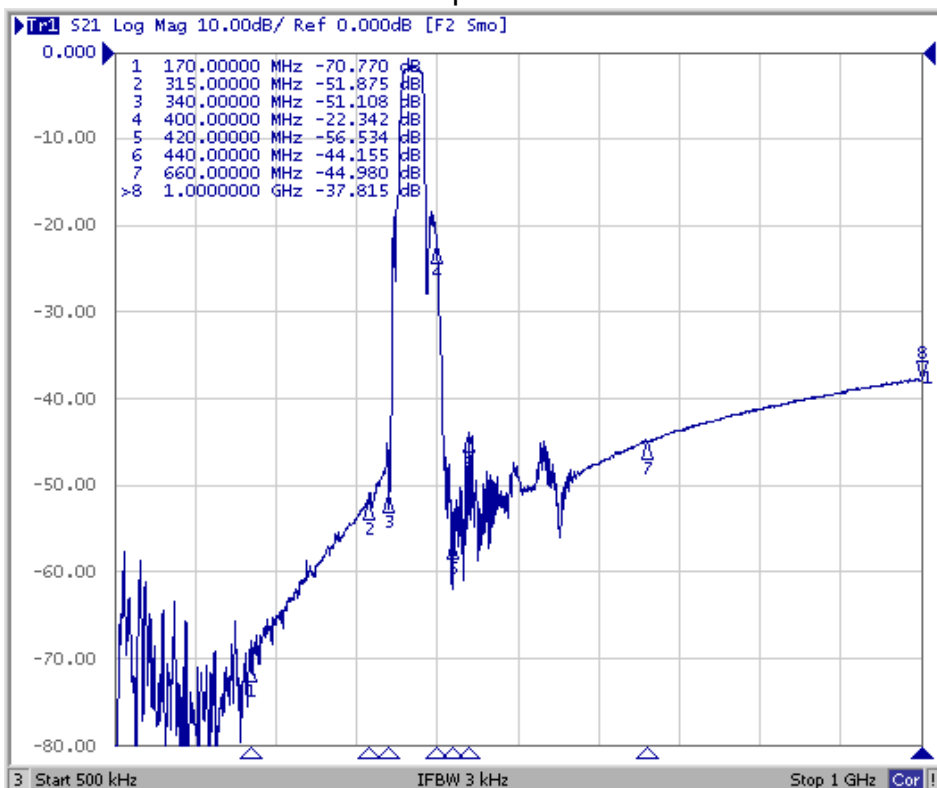


Frequency Characteristics:

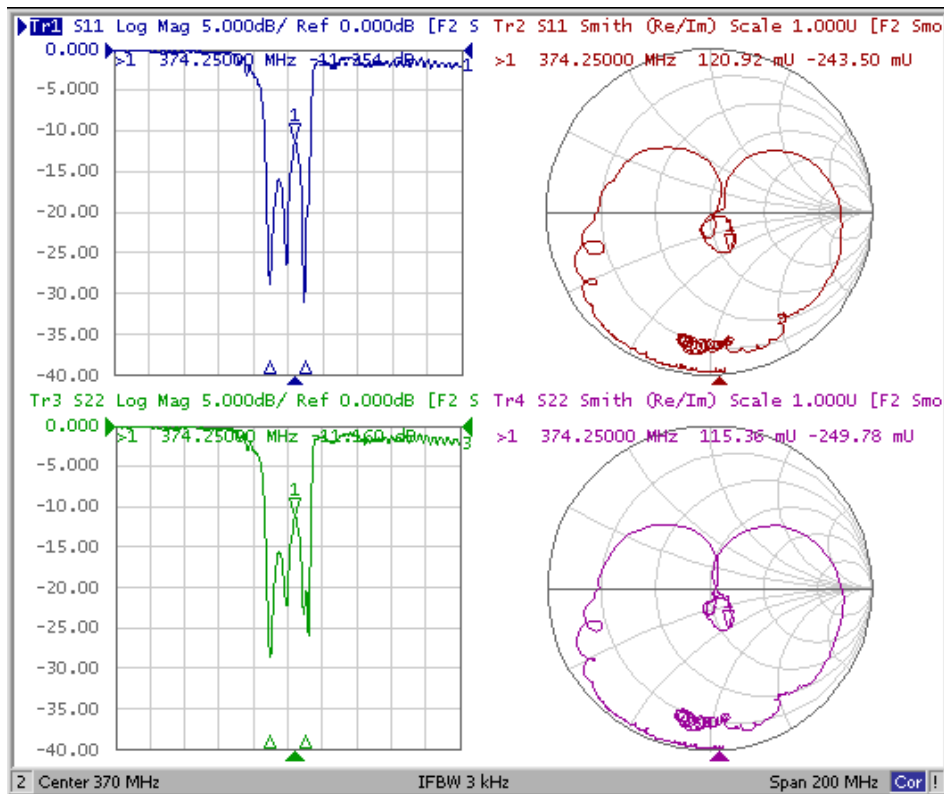
Filter 1 - Span 200 MHz



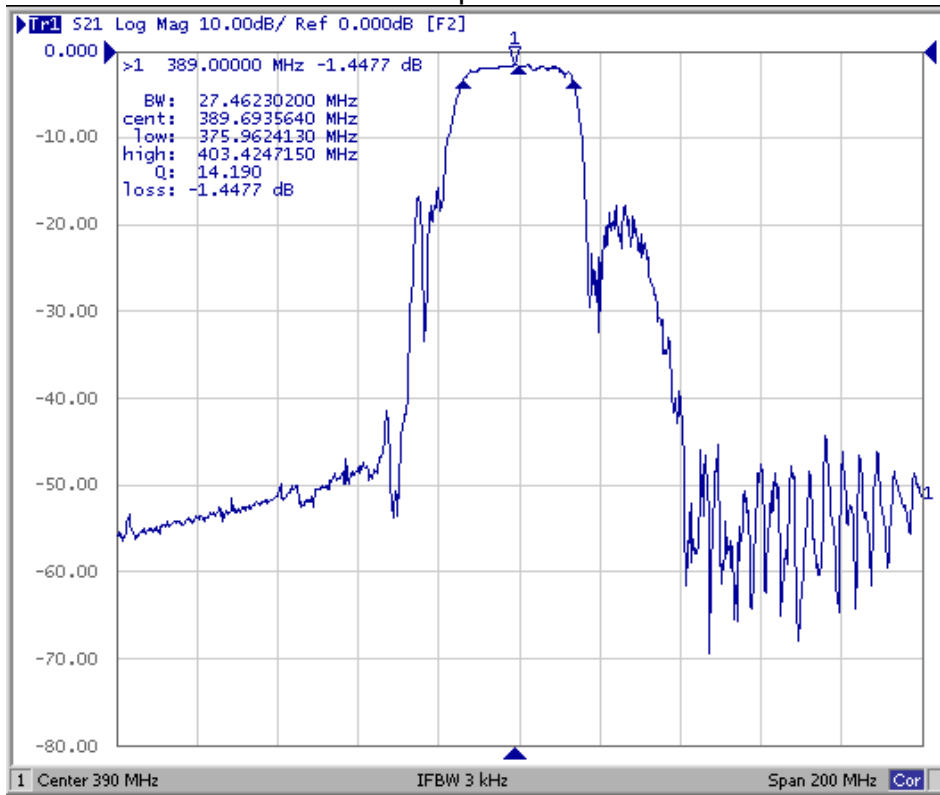
Filter 1 - Span 1000 MHz



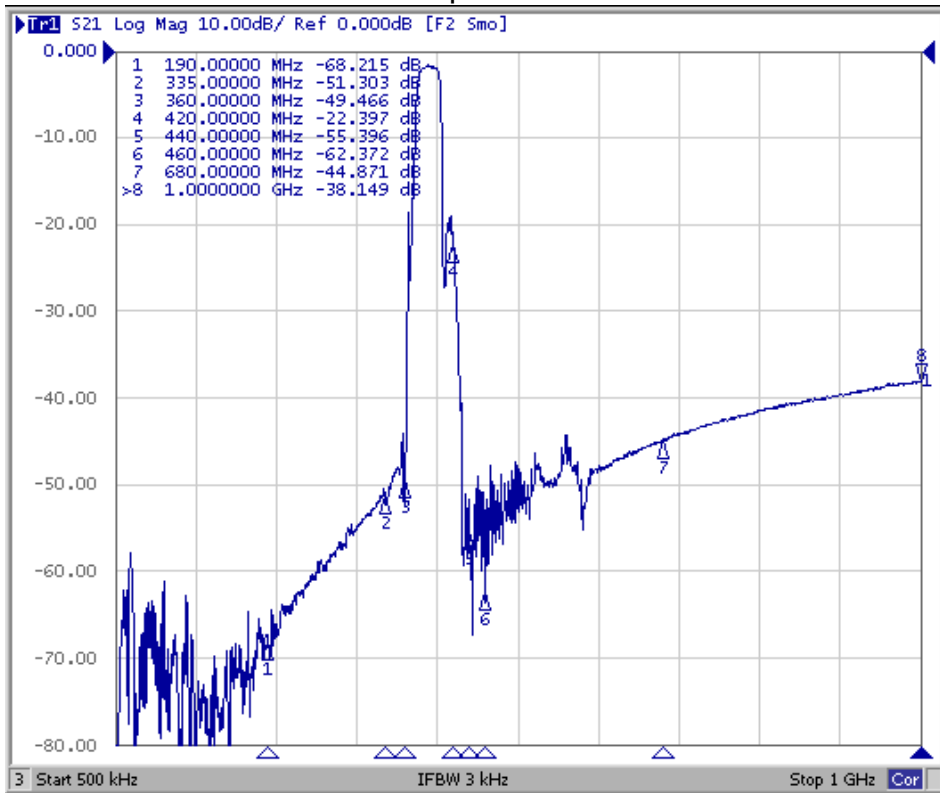
Filter 1 - Reflective characteristics



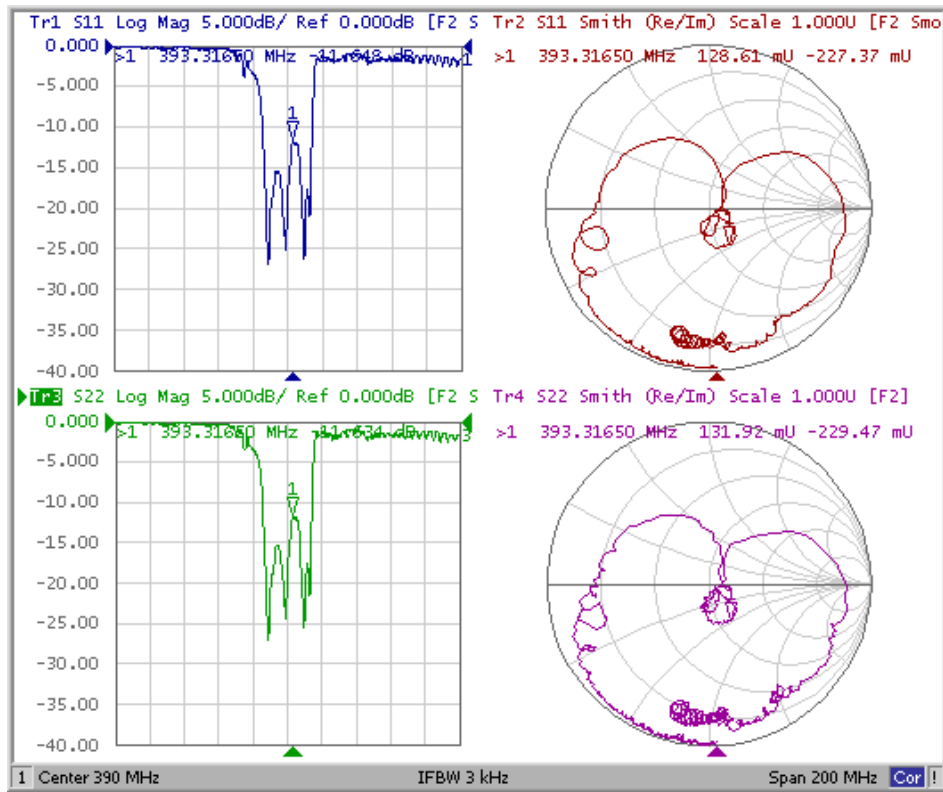
Filter 2 - Span 200 MHz



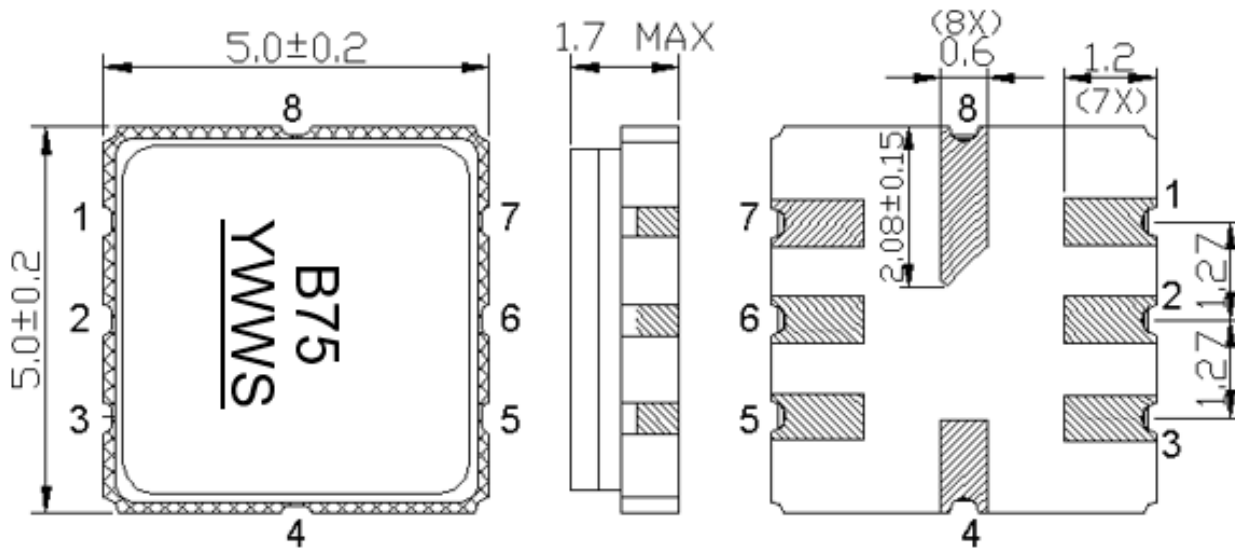
Filter 2 - Span 1000 MHz



Filter 2 - Reflective characteristics



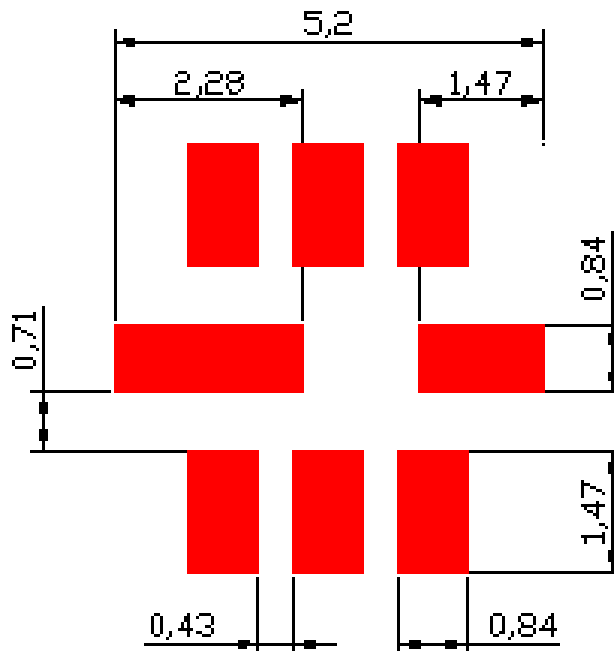
OUTLINE DRAWING:



Y = Year, WW = Week, S = Shift

1	Input (Filter 1)	5	Output (Filter 2)
2	Grounded	6	Grounded
3	Input (Filter 2)	7	Output (Filter 1)
4	Case Ground	8	Case Ground

PCB FOOTPRINT:



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 (10 seconds).
4. Time: 5 times maximum.

