



*Total Solution Provider in Saw Device*

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# SF-162101-S20

Wireless, RF SAW Filter  
Revision 0: November 2012



- Electrical Characteristics
  - Package Dimensions
  - Testing Environment
  - Frequency Characteristics
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## □ Electrical Characteristics

### Maximum Ratings

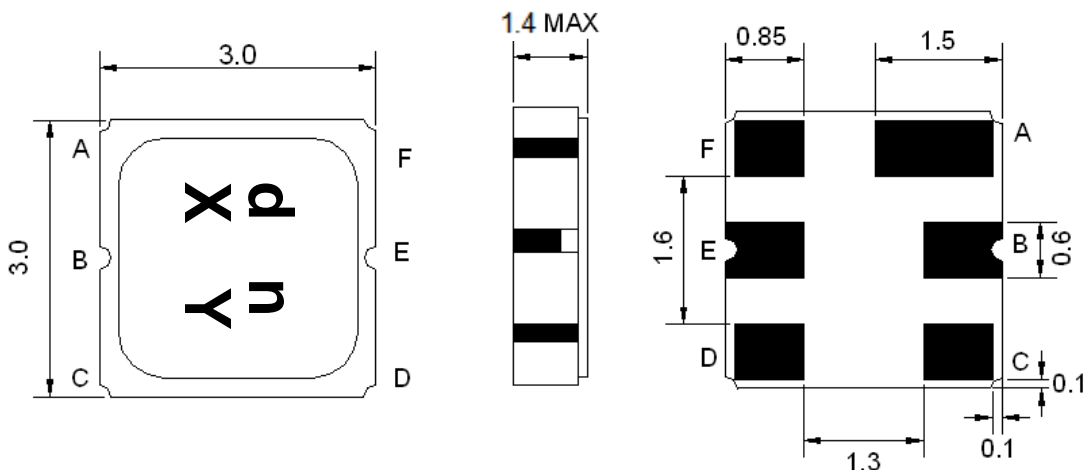
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+90
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	S20			
Length x Width	mm <sup>2</sup>	-	3.0 x 3.0	-
Height	mm	-	-	1.4

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1621.25	-
Insertion Loss within 1616.0 ~ 1626.5 MHz	dB	-	1.9	2.5
Amplitude Ripple within 1616.0 ~ 1626.5 MHz	dB <sub>p-p</sub>	-	0.7	1.2
Return Loss within 1616.0 ~ 1626.5 MHz	dB	10	17	-
<b>Attenuation</b> (Reference level from 0 dB)				
200.0 ~ 1475.0 MHz	dB	35	39	-
1475.0 ~ 1570.0 MHz	dB	20	29	-
1570.0 ~ 1575.0 MHz	dB	15	23	-
1652.0 ~ 1662.0 MHz	dB	2	6	-
1662.0 ~ 1670.0 MHz	dB	2	35	-
1670.0 ~ 2200.0 MHz	dB	25	44	-
2200.0 ~ 3000.0 MHz	dB	25	46	-

**Notes :** (1) No Matching Network .

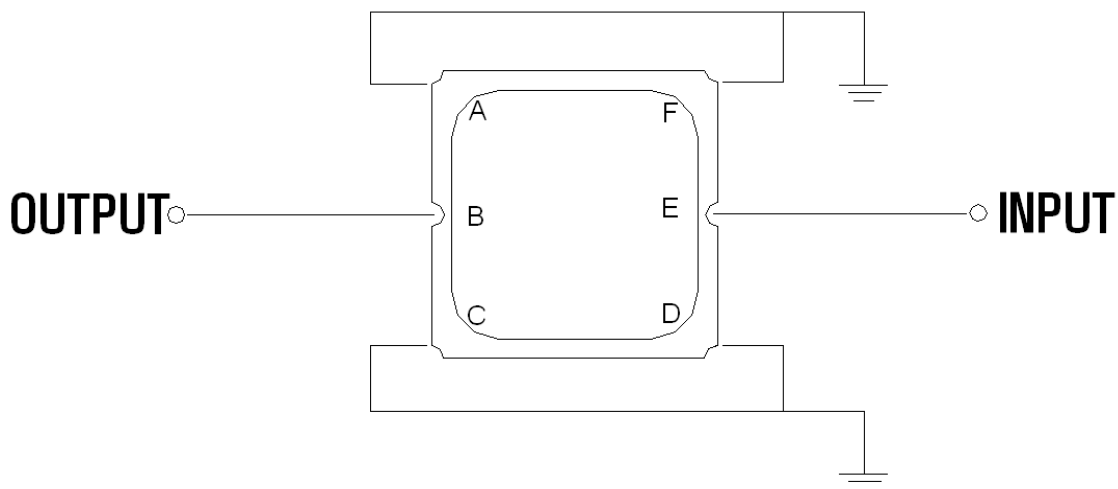
**Package Dimensions**



Marking Descriptions	
d	Wireless Application
n	Series Number
X	Date Code(Year)
Y	Date Code(Month)

Pin Description	
A, C, D, F	Ground
E	Input
B	Output

**Testing Environment**

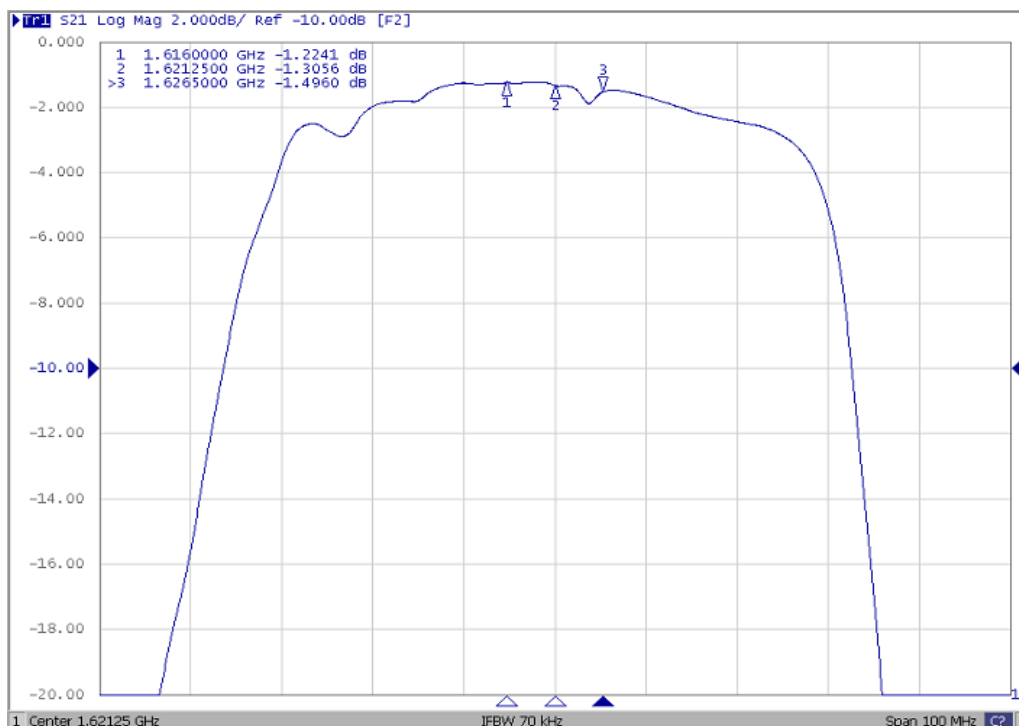
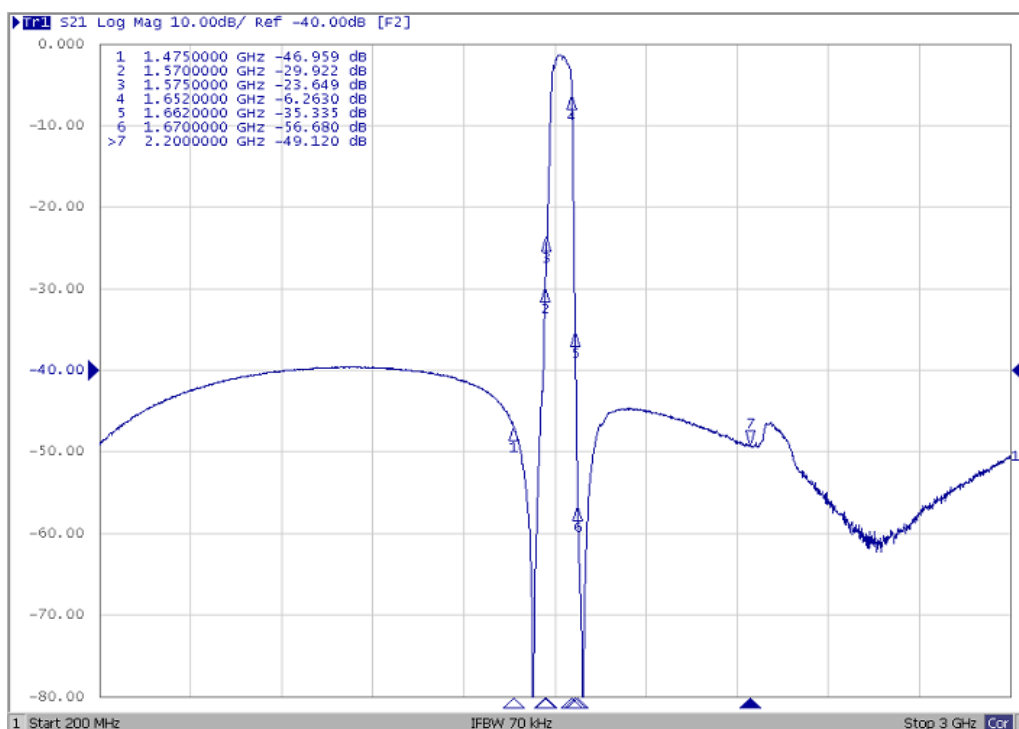


Source & Load Impedance: 50 Ω



### □ Frequency Characteristics

Frequency Response





Return Loss

