



PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
820-IF62.5M-19B	62.5MHz IF SAW Filter 19.5Hz Bandwidth

Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
- o Electrical Specification
- o Frequency Response
- o Smith Chart
- o VSWR

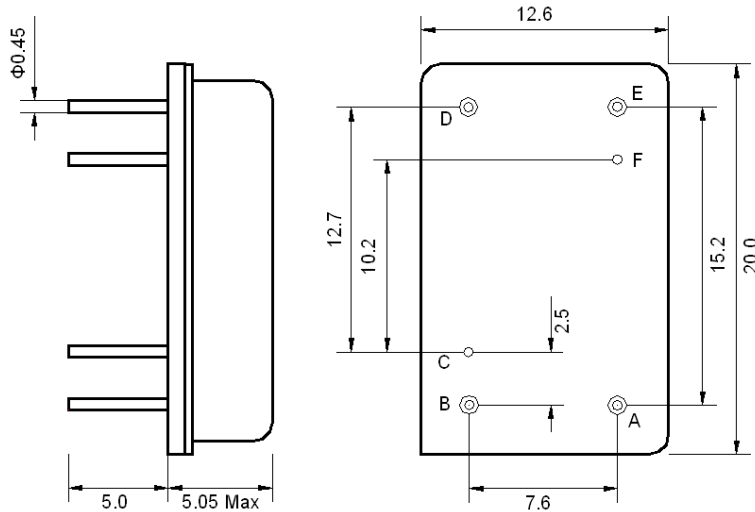
Notes

- o Electrostatic Sensitive Device (ESD) 
- o Avoid excessive ultrasonic exposure
- o Solderability compatible with JEDEC J-STD-020C Pb-free process, 260°C peak reflow temperature
- o This product complies with EU directive 2002/95/EC (RoHS compliance)



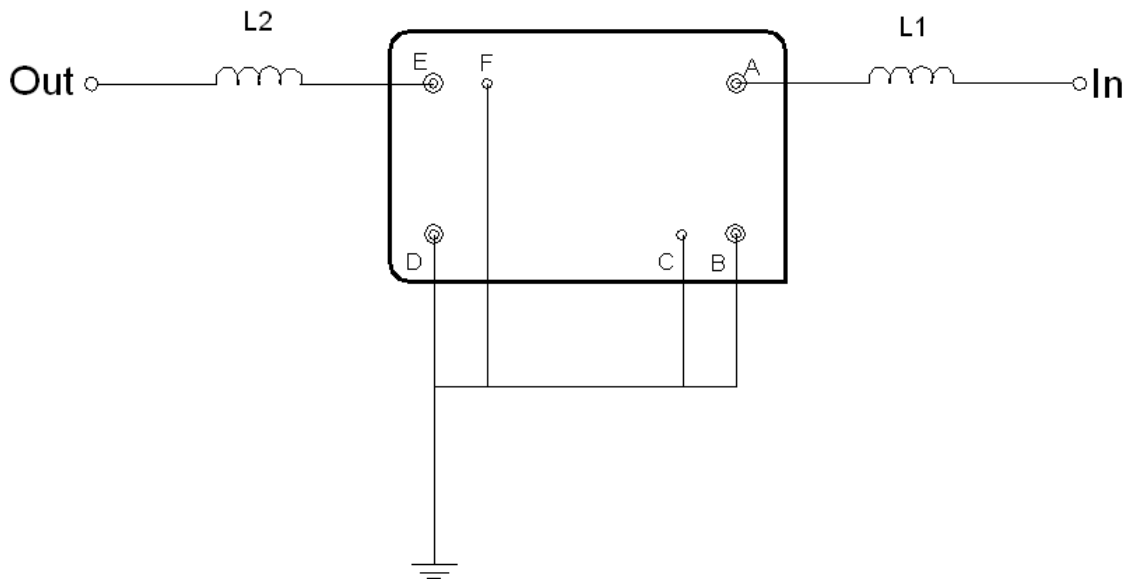


Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1 = 270 nH
Output	L2 = 220 nH
Source/Load Impedance	50 Ω



Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-

Notes: With Matching Network (Ref. Testing Environment Circuit as shown above).

Those impedances could be modified with different impedance values and/or structures, if necessary.

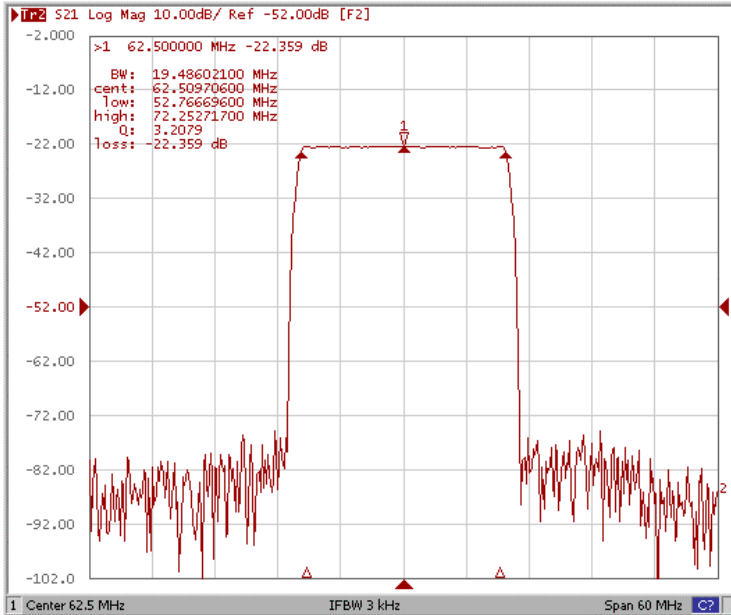
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	62.5	-
Insertion Loss at Fo	dB	-	22.3	24.5
Amplitude Ripple Variation within Fo ±9.22 MHz	dB _{p-p}	-	0.35	1.0
Group Delay Variation within Fo ±9.22 MHz	nsec	-	40	70
Absolute Delay at Fo	μsec	-	1.84	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	-	19.5	-
Bandwidth at -3.0 dB	MHz	19.9	20.0	-
Bandwidth at -40.0 dB	MHz	-	21.93	22.1
Attenuation Rejection				
Lower Sidelobe	dB	50	55	
Upper Sidelobe	dB	50	55	

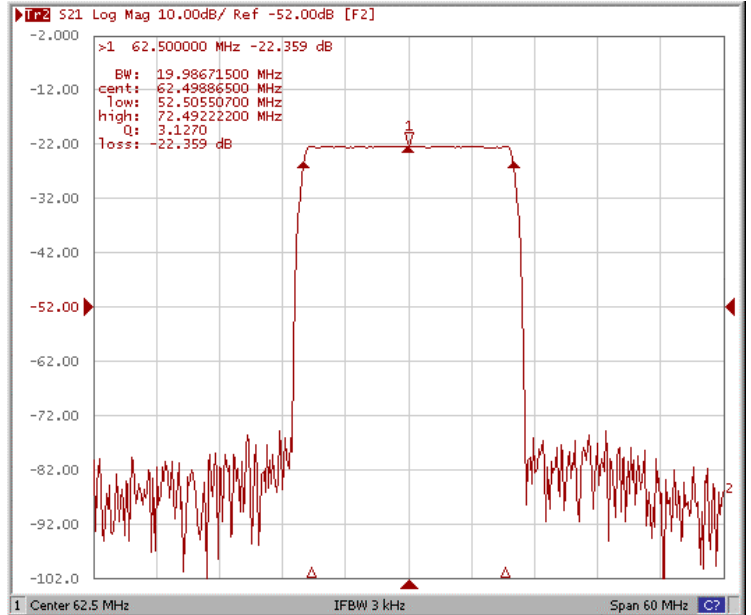


Frequency Response

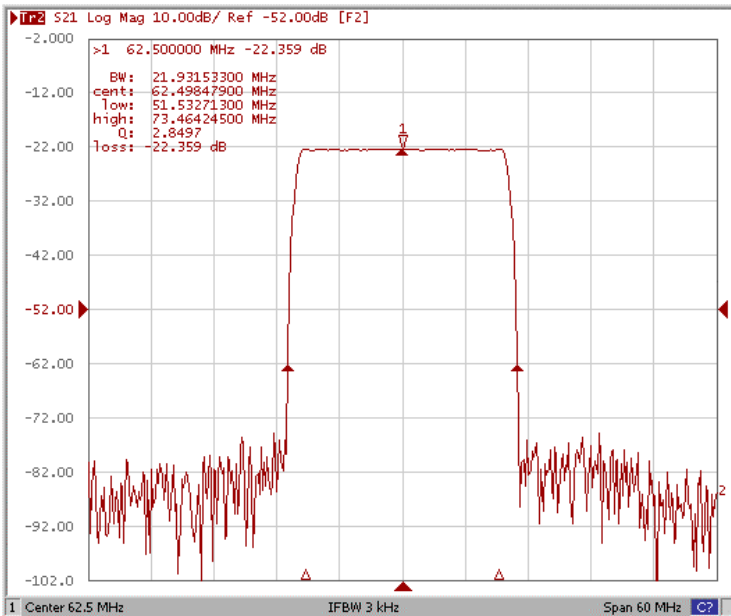
Bandwidth at -1.0 dB



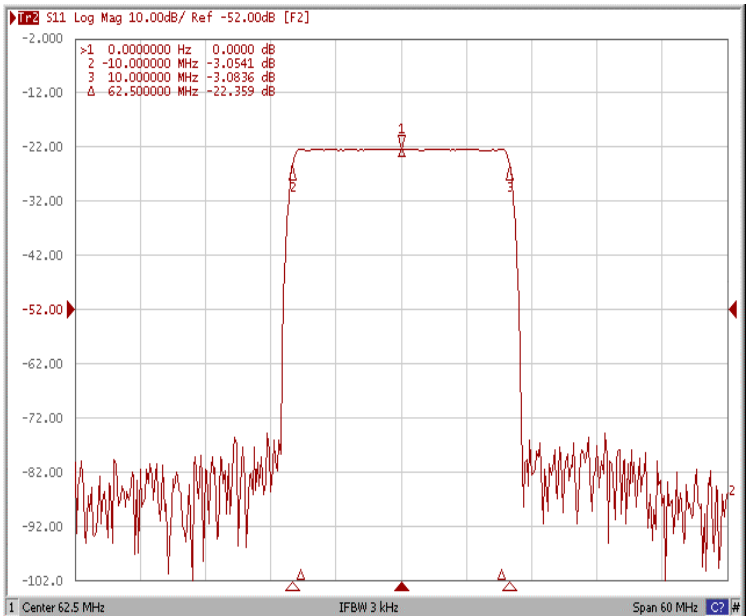
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

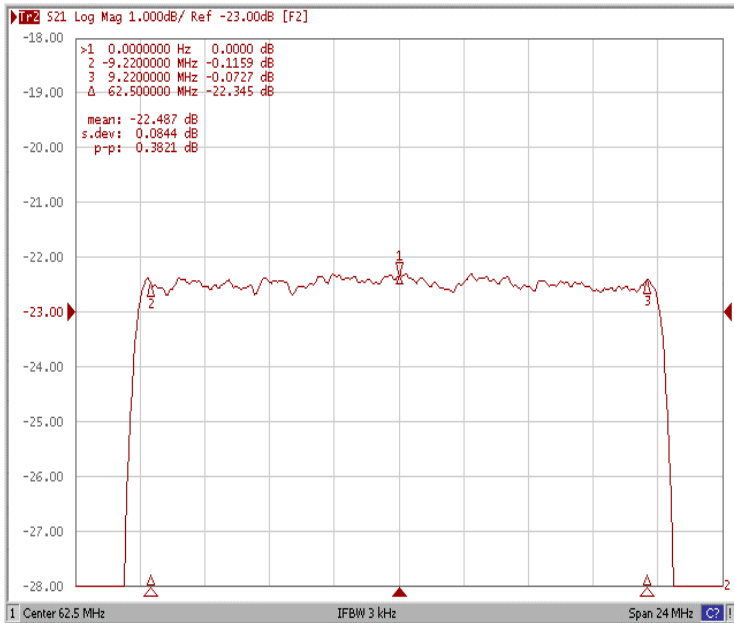


Attenuation Fo ±10.0 MHz

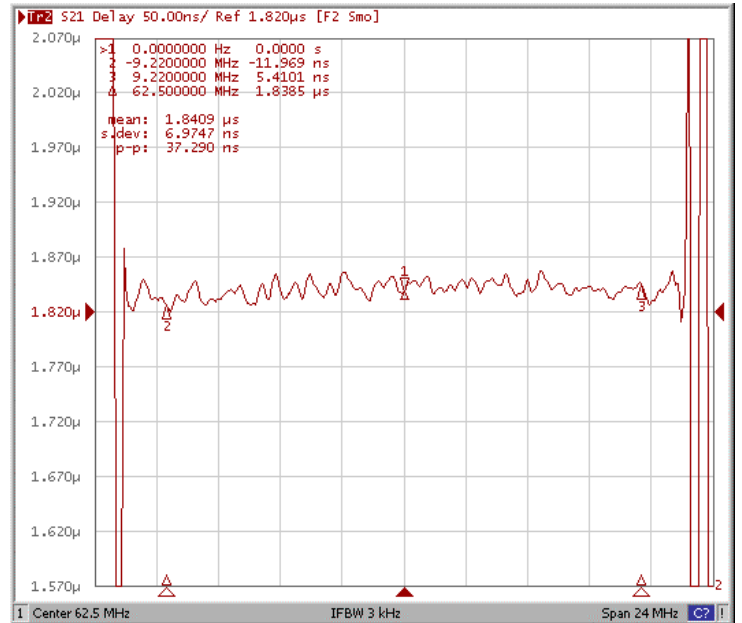




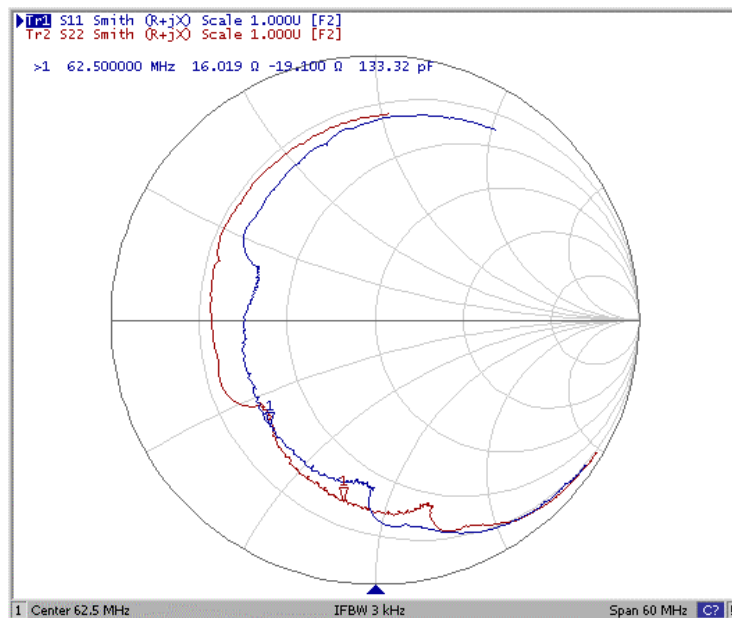
Ripple Variation Fo±9.22MHz



Group Delay Variation Fo±9.22MHz



Smith Chart





VSWR

