



REV A January 2011


Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL65.8M-06A	65.8 MHz IF SAW Filter 6.60 MHz Bandwidth

Specification Contents

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

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)



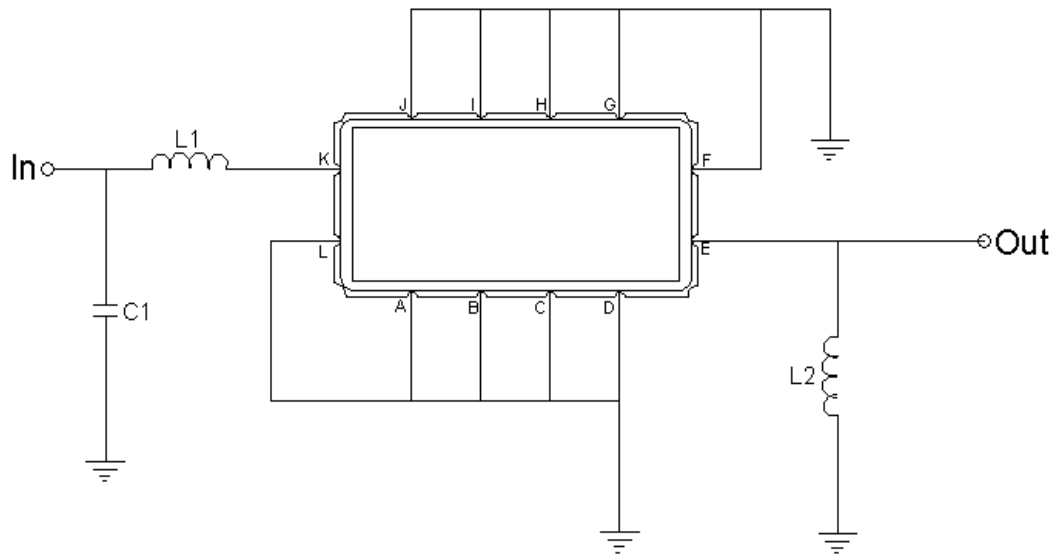


Mechanical Dimensions (mm)



Pin Description	
A, B, C, D, F, G, H, I, J, L	Ground
K	Input
E	Output

Test Circuit



Test Fixture & Values	
Input	L1 = 39 nH, L2 = 6.8 nH
Output	L3 = 47 nH
Source/Load Impedance	50 Ω

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	15	25	35
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.

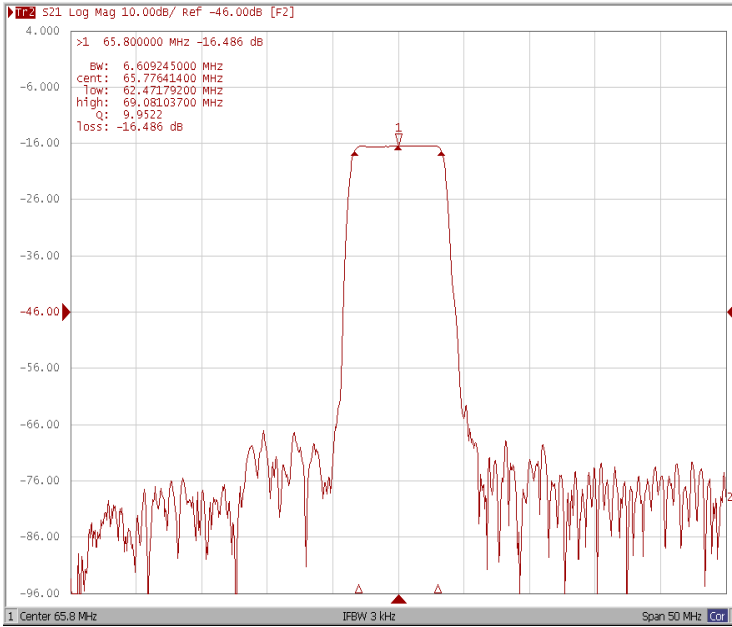
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	65.7	65.8	65.9
Insertion Loss at Fo	dB	-	16.5	18.0
Group Delay Variation Fo±3.0MHz	nsec	-	50	100
Absolute Delay at Fo	usec	-	1.68	-
Passband Ripple Variation Fo±3.0MHz	dB	-	0.30	0.8
Bandwidth at -1dB	MHz	6.40	6.60	-
Bandwidth at -3dB	MHz	-	7.00	-
Bandwidth at -20dB	MHz	-	8.10	-
Bandwidth at -40dB	MHz	-	9.10	9.50
Relative Attenuation				
70.44MHz ~ 70.94MHz	dB	20	35	
Temperature Coefficient	ppm/°C	-	-18	-

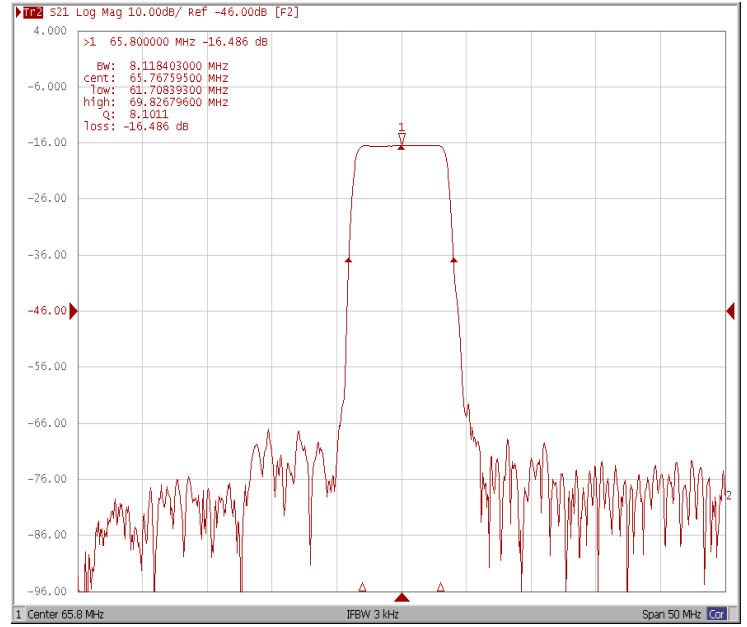


Frequency Response

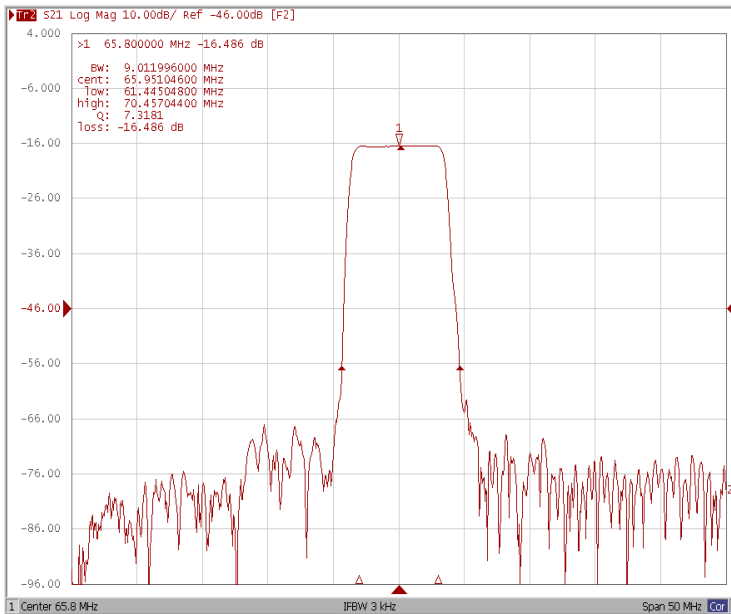
Bandwidth at -1.0 dB



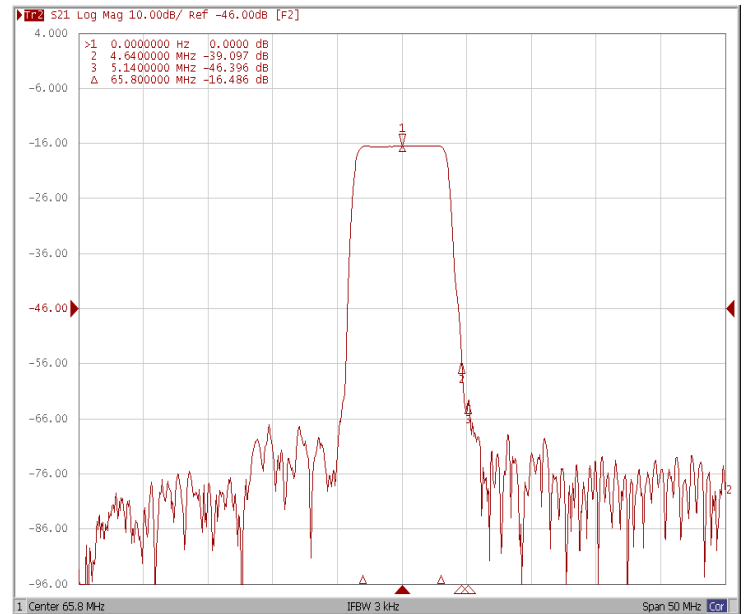
Bandwidth at -20.0 dB



Bandwidth at -40.0 dB

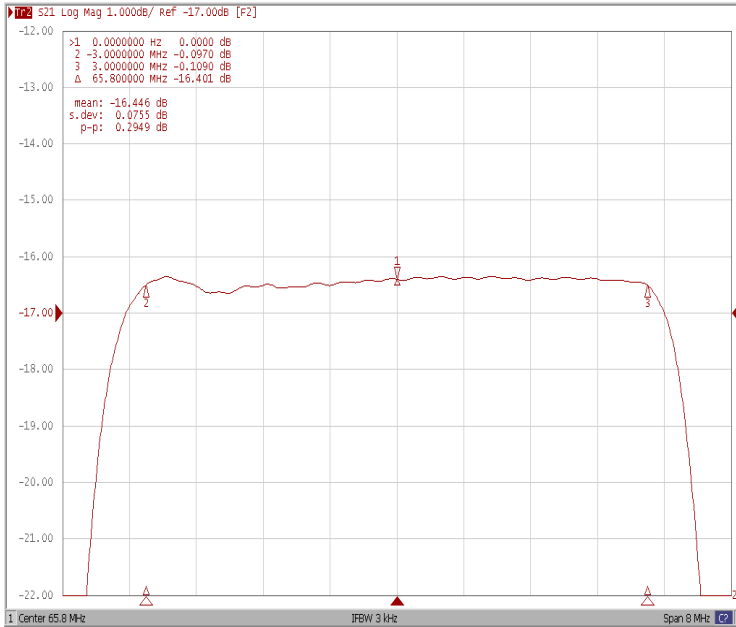


Attenuation (70.44 ~70.94MHz)

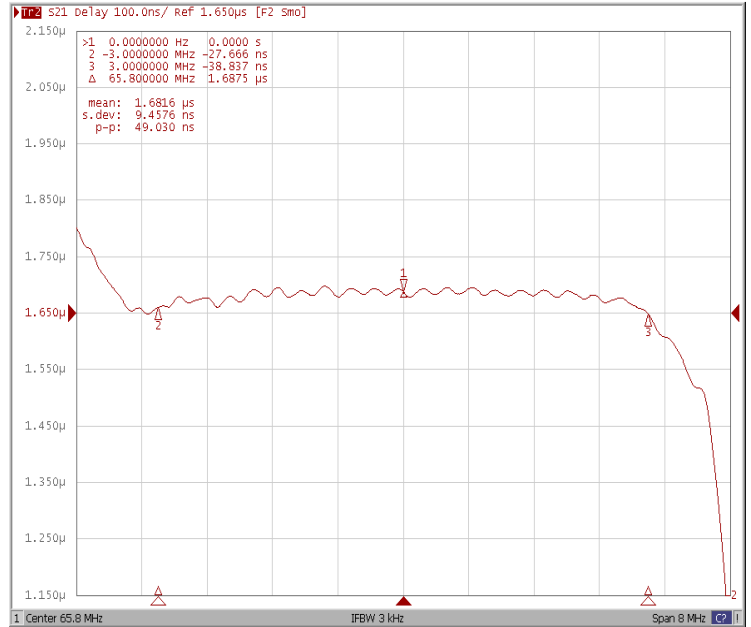




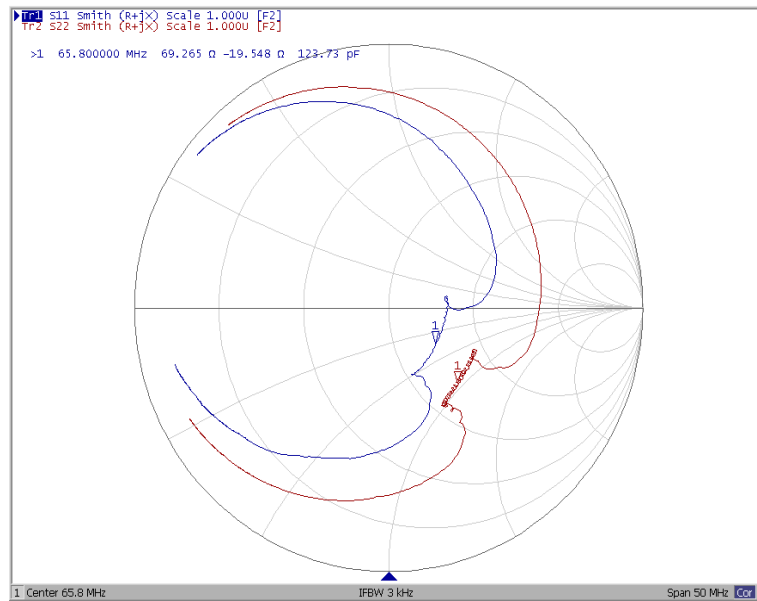
Ripple Variation Fo±3.0MHz



Group Delay Variation Fo±3.0MHz



Smith Chart





VSWR

