



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL112.5M-65A	112.5 MHz IF SAW Filter 67.10 MHz 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)



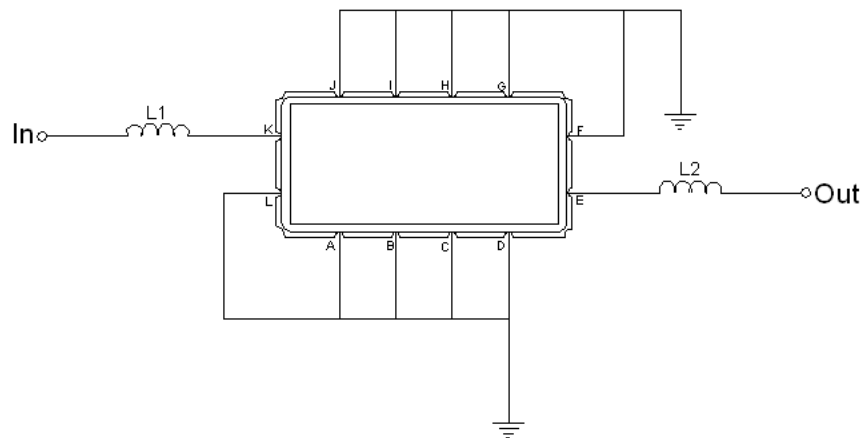


## Mechanical Dimensions (mm)



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

## Test Circuit



Test Fixture & Values	
Input	L1=27nH
Output	L2=12nH
Source/Load Impedance	50 Ω

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	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.

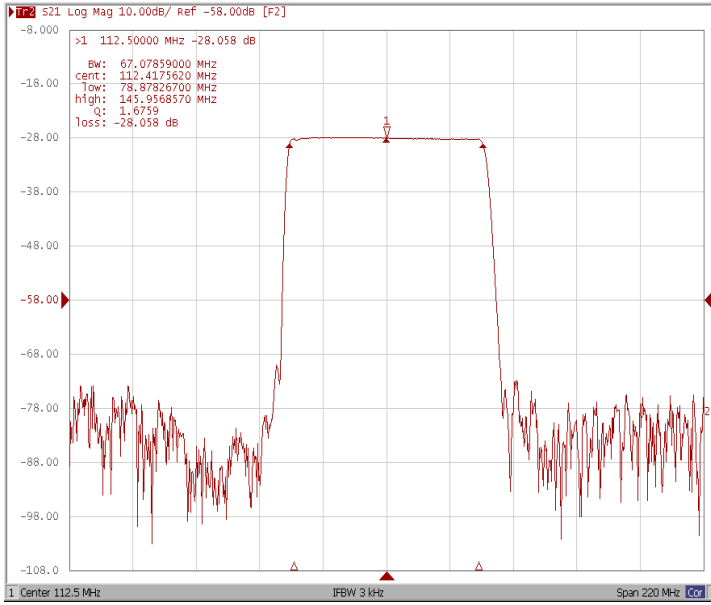
**Electrical Specification**

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	112.5	-
Insertion Loss at Fo	dB	-	28.00	30.00
Group Delay Variation (Fo±32.0MHz)	nsec	-	17	30
Absolute Delay	usec	-	0.85	-
Passband Ripple (Fo±32.0MHz)	dB	-	0.7	1.2
Bandwidth at -1dB	MHz	66.80	67.10	-
Bandwidth at -3dB	MHz	-	68.55	-
Bandwidth at -40dB	MHz	-	75.70	76.30
Ultimate Rejection	dB	-	40	-
Temperature coefficient	ppm/°C	-	-72	-

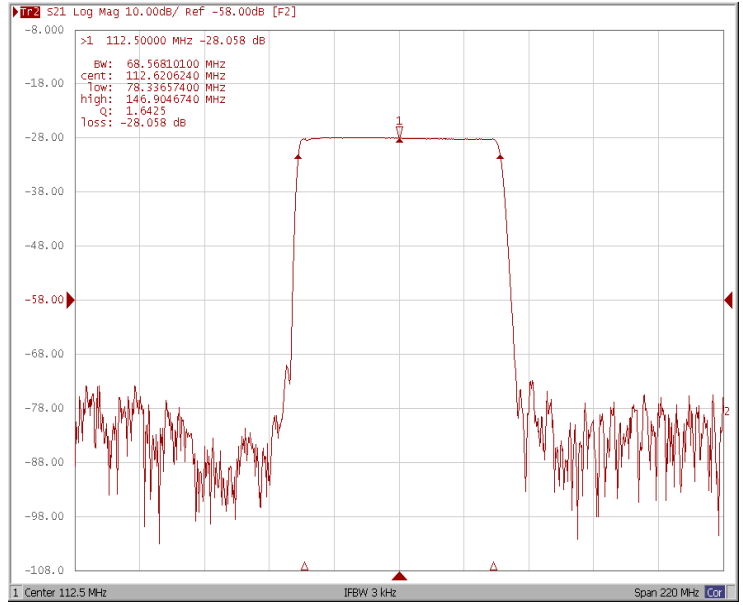


### Frequency Response

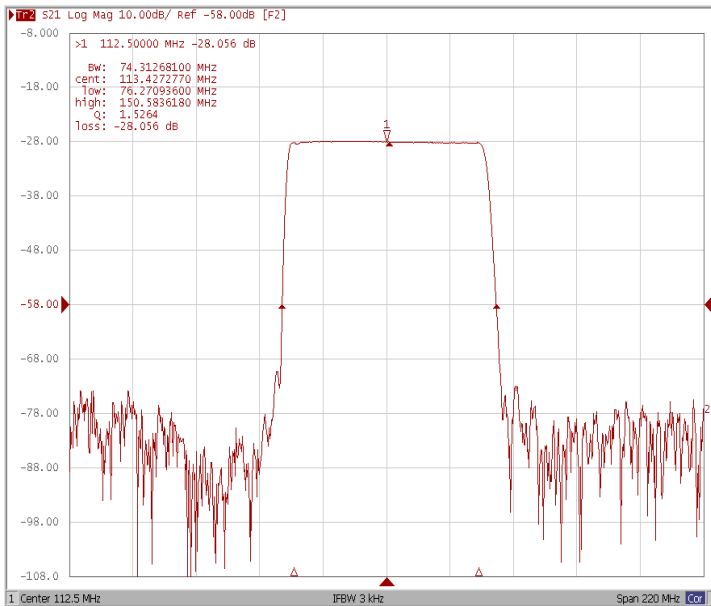
#### Bandwidth at -1.0 dB



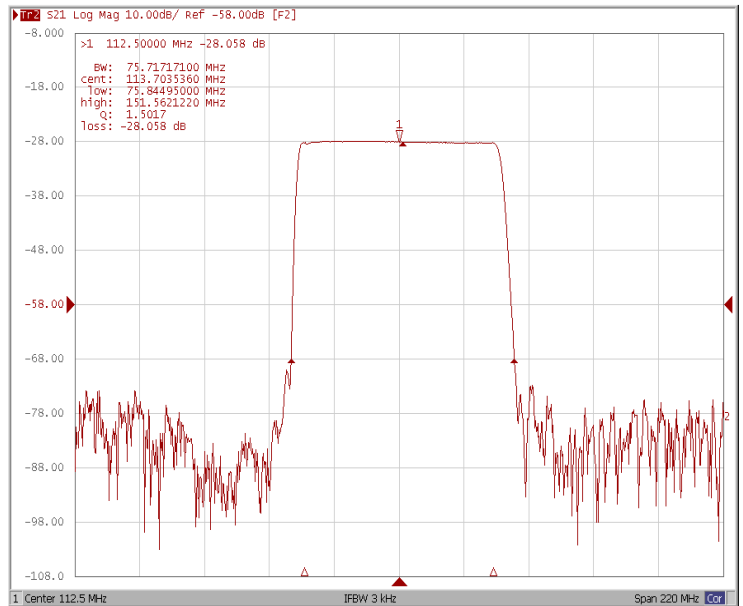
#### Bandwidth at -3.0 dB



#### Bandwidth at -30.0 dB

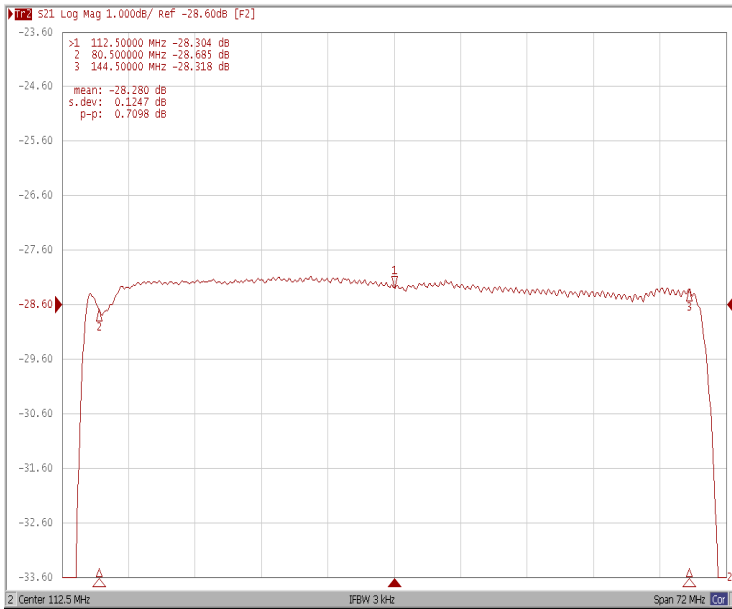


#### Bandwidth at -40.0 dB

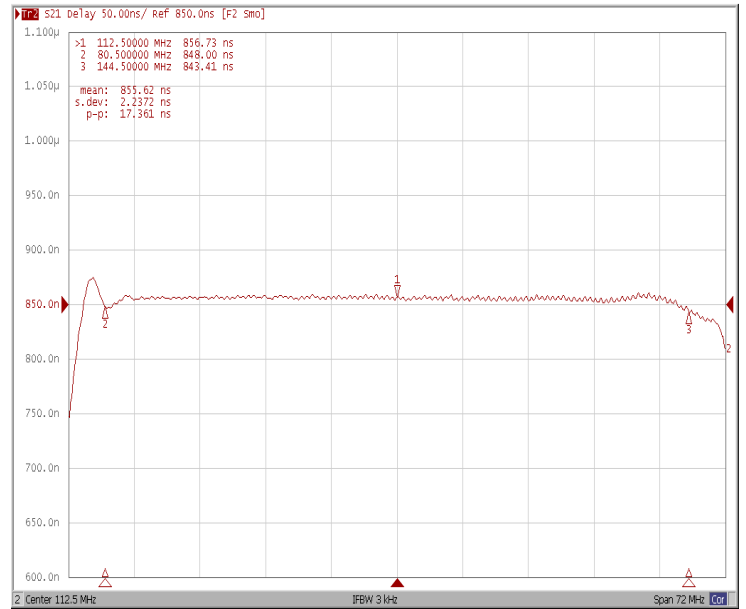




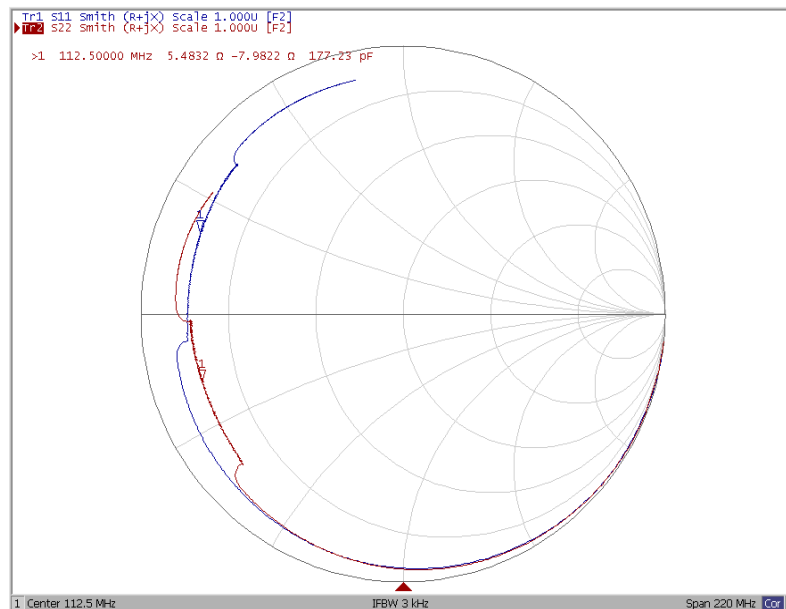
### Ripple Variation $F_o \pm 32.0$ MHz



### Group Delay Variation $F_o \pm 32.0$ MHz



### Smith Chart





## VSWR

