



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL95.0M-19A	95.0 MHz IF SAW Filter 19.42 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)



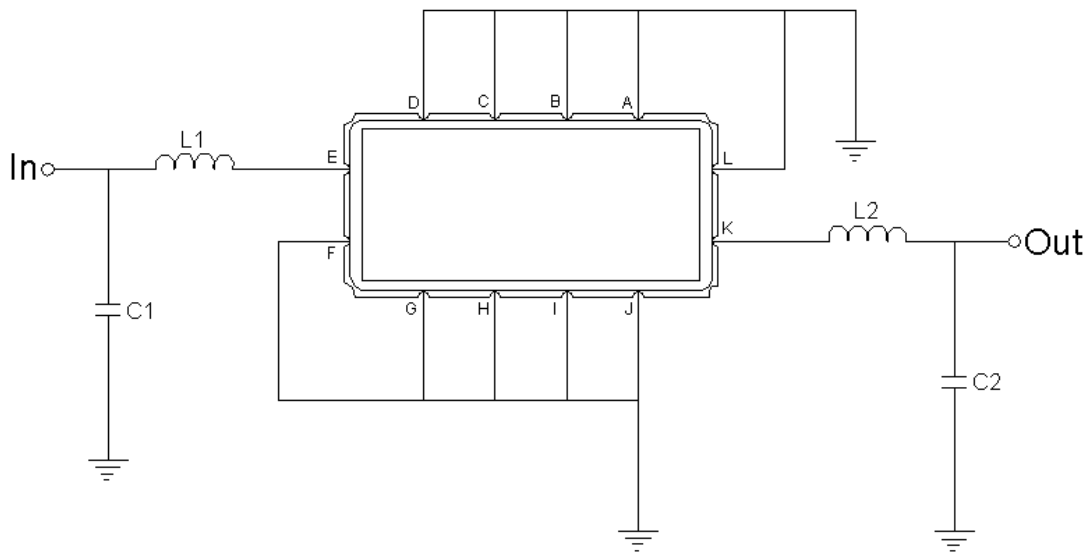


Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1=150nH, C1=20p
Output	L2=120nH, C2=33p
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) ⁽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.

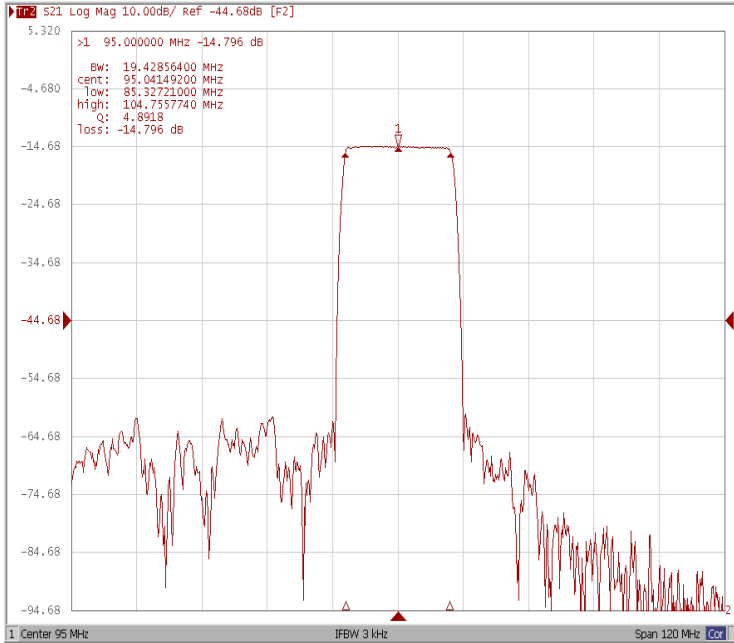
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	95.0	-
Insertion Loss at Fo	dB	-	14.80	16.00
Temperature Coefficient	ppm/°C	-	-86	-
Passband Ripple (fo ±9.50 MHz)	dB _{p-p}	-	0.50	0.90
Group Delay Variation (fo ±9.50 MHz)	nsec	-	75	120
Absolute Delay at Fo	µsec	-	1.14	-
Bandwidth at -1.0 dB	MHz	-	19.42	-
Bandwidth at -3.0 dB	MHz	19.90	20.15	-
Bandwidth at -40.0 dB	MHz	-	23.25	23.60
Ultimate Rejection	dB	40	45	-

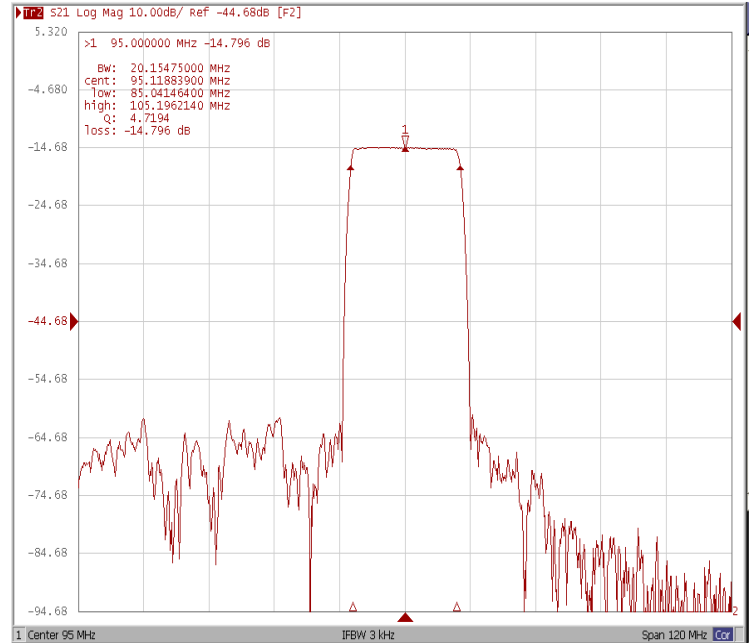


Frequency Response

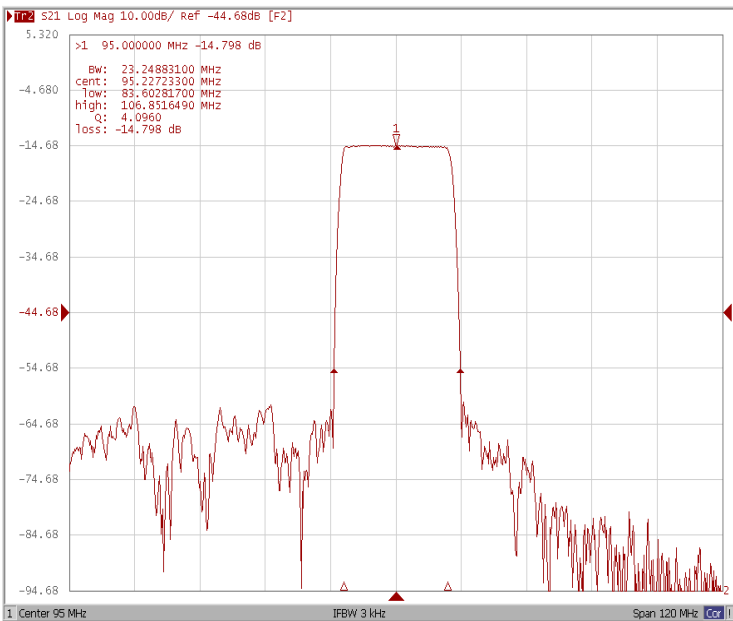
Bandwidth at -1.0 dB



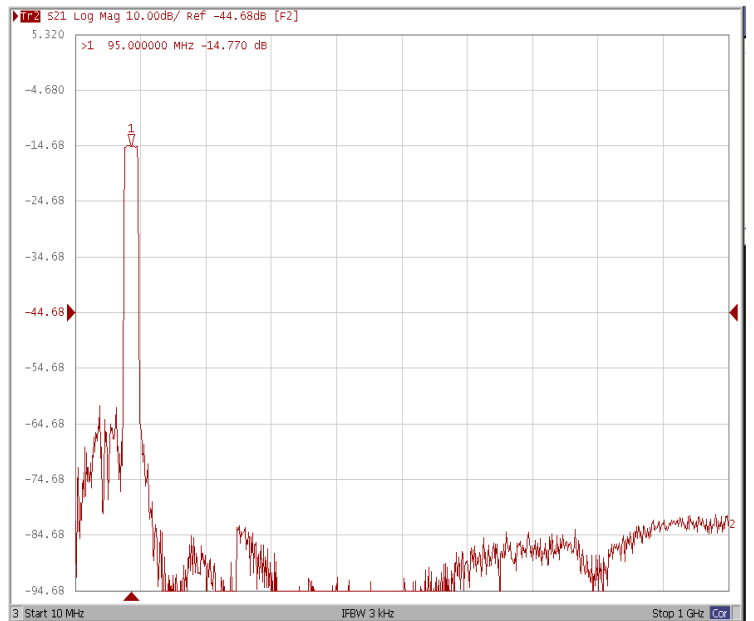
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

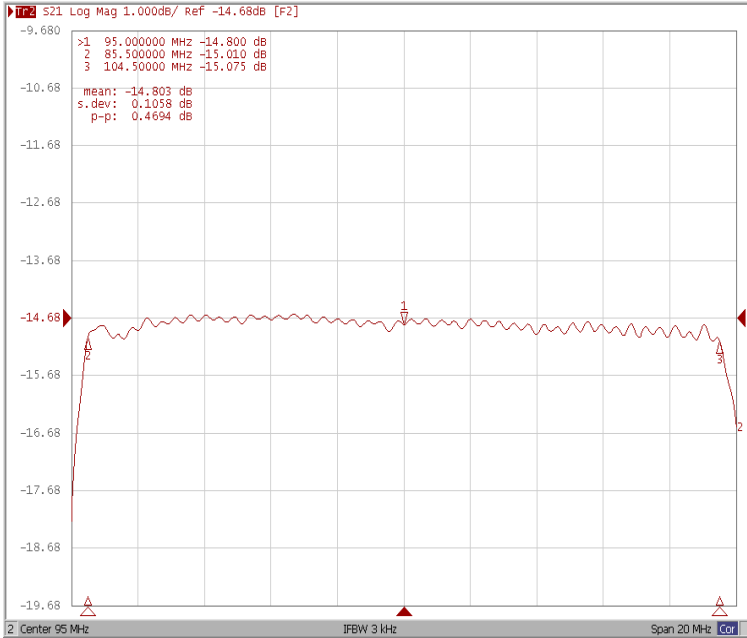


Wide-Band

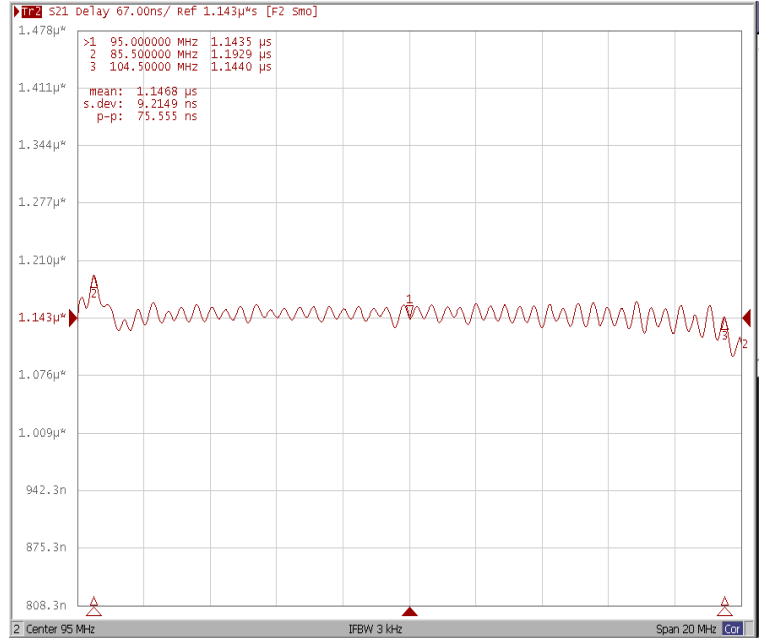




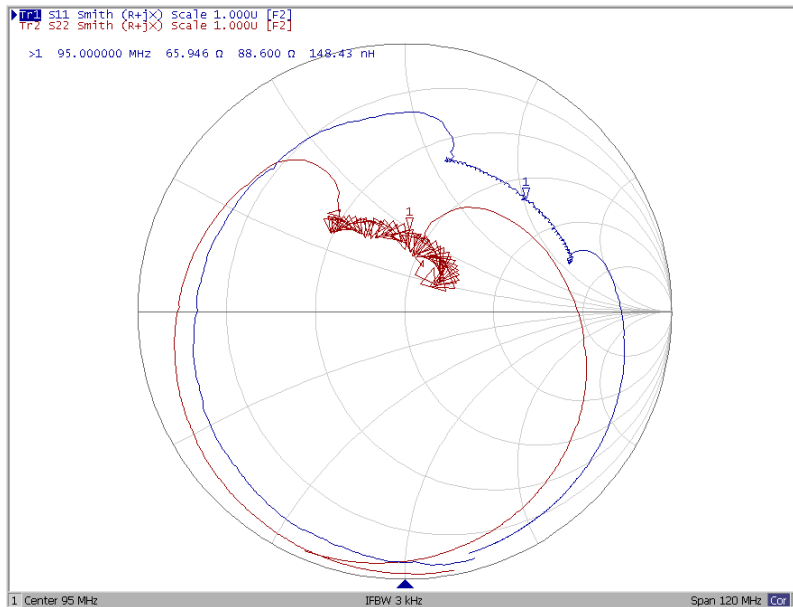
Ripple Variation Fo±9.5MHz



Group Delay Variation Fo±9.5MHz



Smith Chart





VSWR

