

- 65.0MHz IF SAW Filter / 29.99MHz Bandwidth
- Revision 0: 17 Jul. 2008

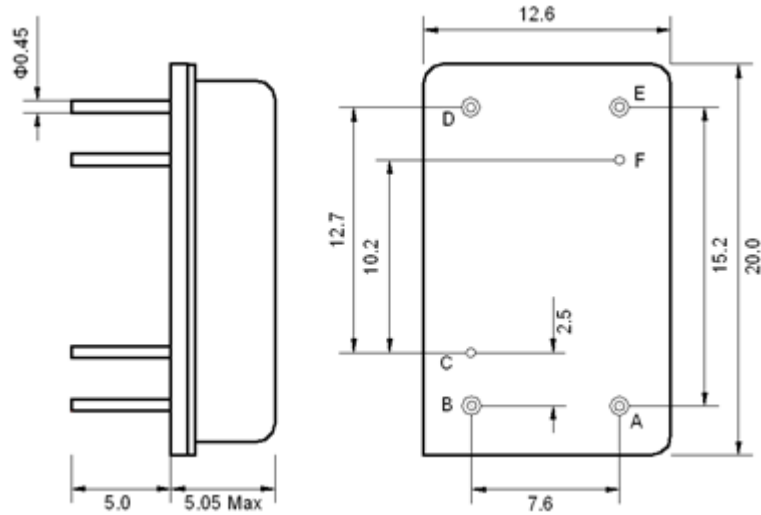
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation 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	-
Package type & size	D			
Length x Width	mm ²	-	20.0 x 12.6	-
Height	mm	-	-	5.05

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	65.0	-
Insertion Loss at Fo	dB	-	31.5	33.0
Amplitude Ripple Variation within Fo ±14.75 MHz	dB _{p-p}	-	0.65	1.0
Group Delay Variation within Fo ±14.75 MHz	nsec	-	30	60
Absolute Delay at Fo	μsec	-	2.14	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	29.90	29.99	-
Bandwidth at -3.0 dB	MHz	-	30.30	-
Bandwidth at -40.0 dB	MHz	-	31.70	31.90
Attenuation Rejection				
Lower Sidelobe	dB	45	48	
Upper Sidelobe	dB	45	48	

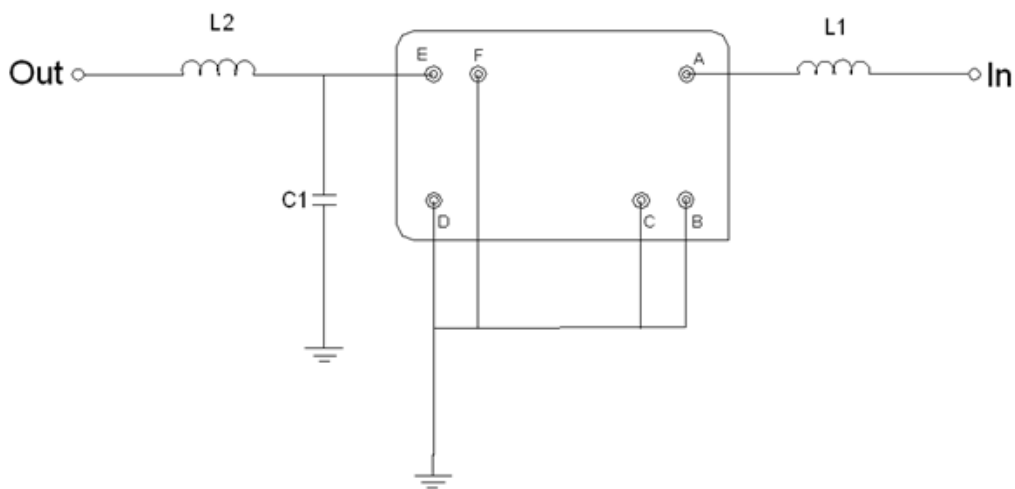
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

Testing Environment



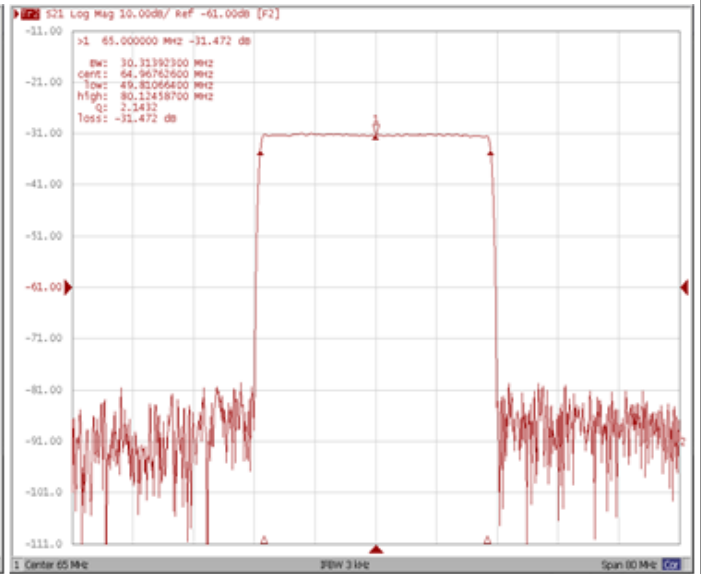
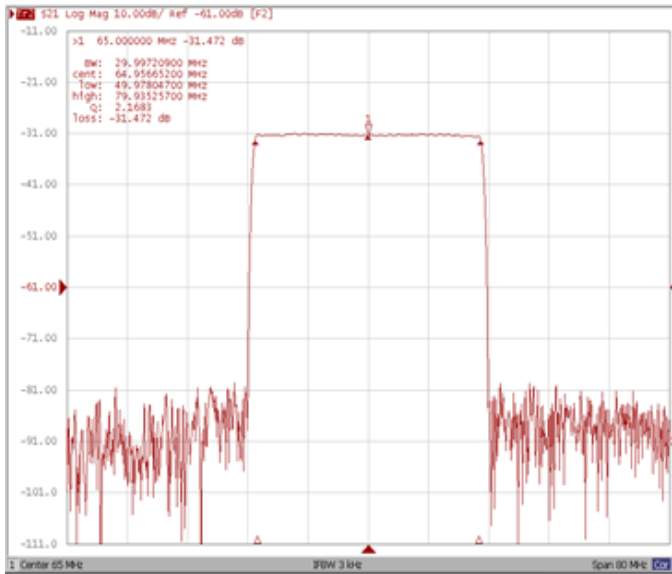
Test Fixture & Values	
Input	L1 = 150 nH
Output	L2 = 180 nH, C1 = 16 pF
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

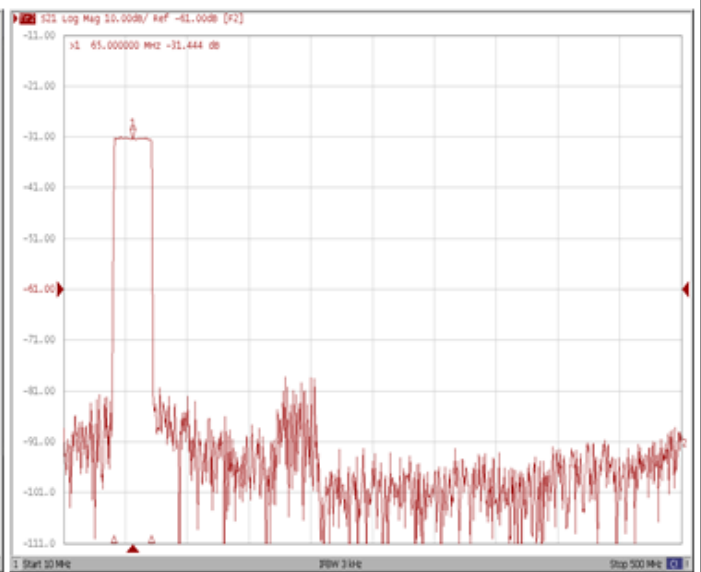
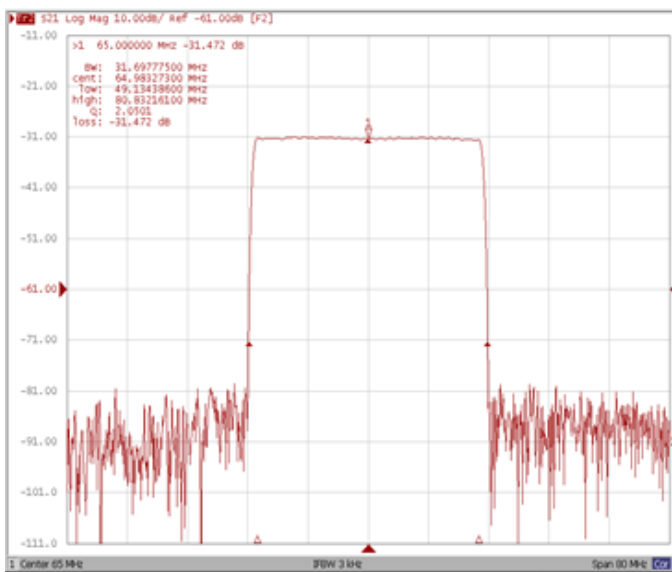
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



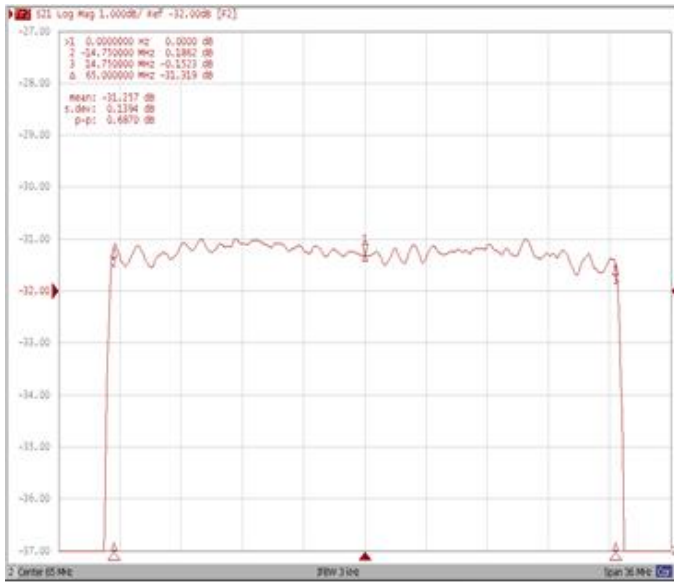
Bandwidth at -40.0 dB

Wide-Band

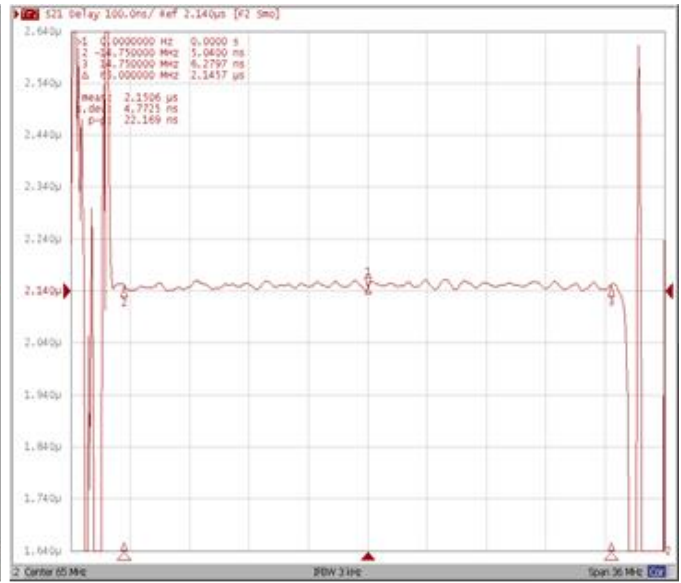


Frequency Response

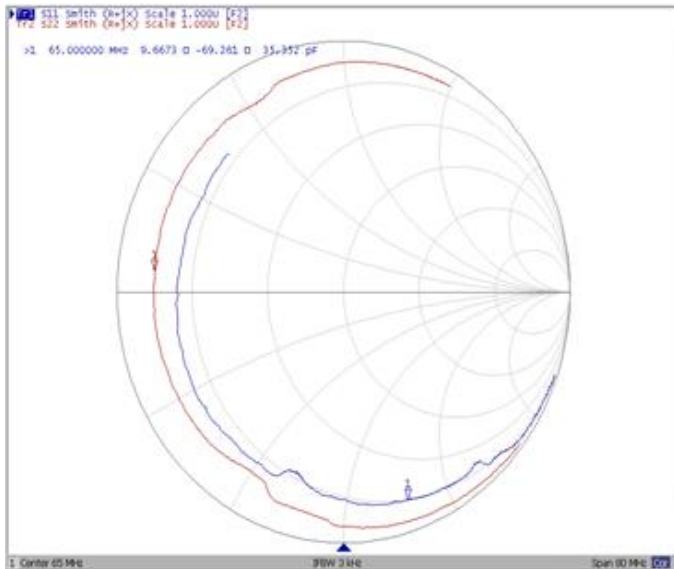
Ripple Variation Fo±14.75MHz



Group Delay Variation Fo±14.75MHz



Smith Chart



SWR

