

- 255.0 MHz IF SAW Filter / 29.58 MHz Bandwidth
- Revision 0: November 2013

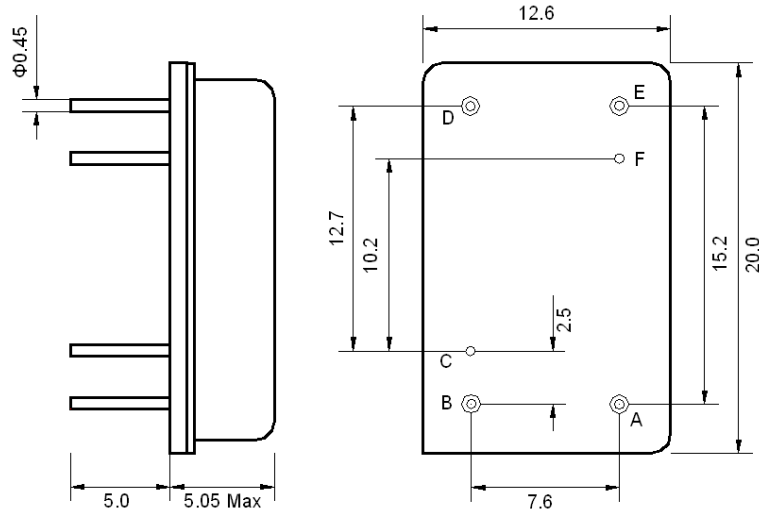
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-10	-	60
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	D40			
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	-	255.0	-
Insertion Loss at Fo	dB	-	31.5	32.5
Group Delay Variation at Fo ± 14.22 MHz	nsec	-	55	100
Absolute Delay at Fo	usec	-	2.89	-
Passband Ripple Variation at Fo ± 14.22 MHz	dB	-	0.85	1.30
Bandwidth at -1dB	MHz	29.40	29.58	-
Bandwidth at -3dB	MHz	-	29.91	-
Bandwidth at -40dB	MHz	-	31.17	31.30
Ultimate Rejection	dB	50	53	-
Temperature Coefficient	ppm/°C	-	-18	-

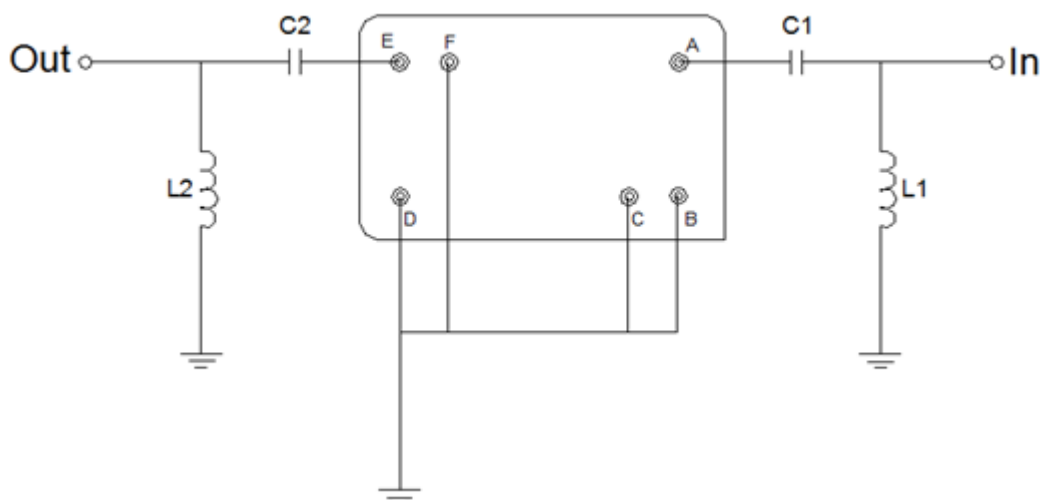
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

Testing Environment



Test Fixture & Values	
Input	L1 = 8.2 nH, C1 = 75 pF
Output	L2 = 8.2 nH, C2 = 200 pF
Source/Load Impedance	50 Ω

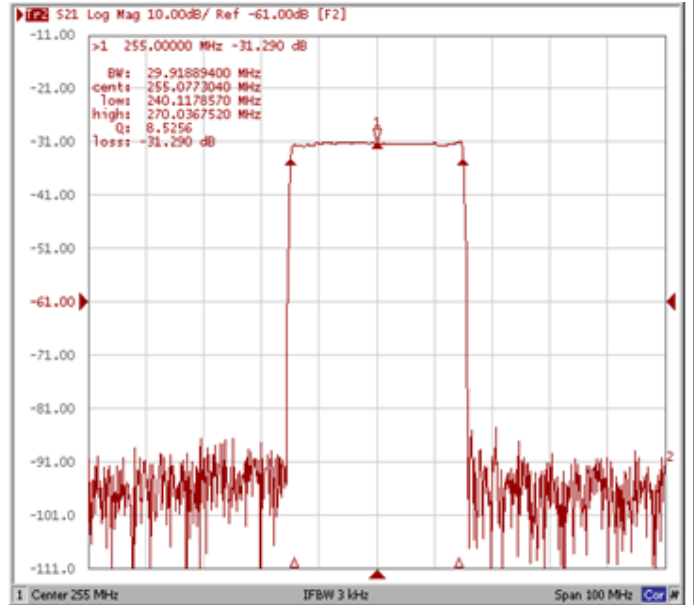
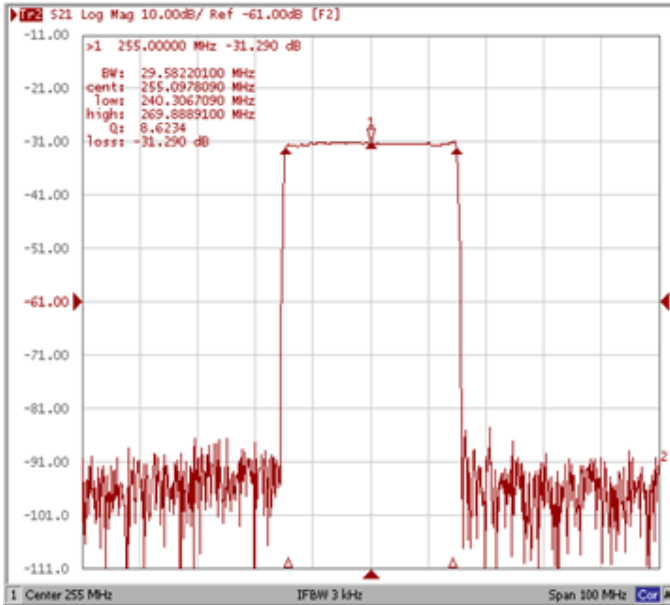
Frequency Characteristics

Frequency Response

Operating Temperature: +25°C

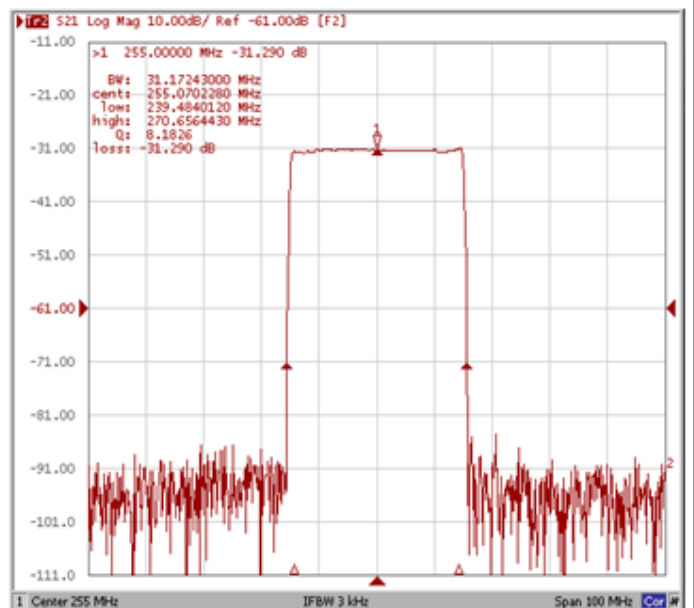
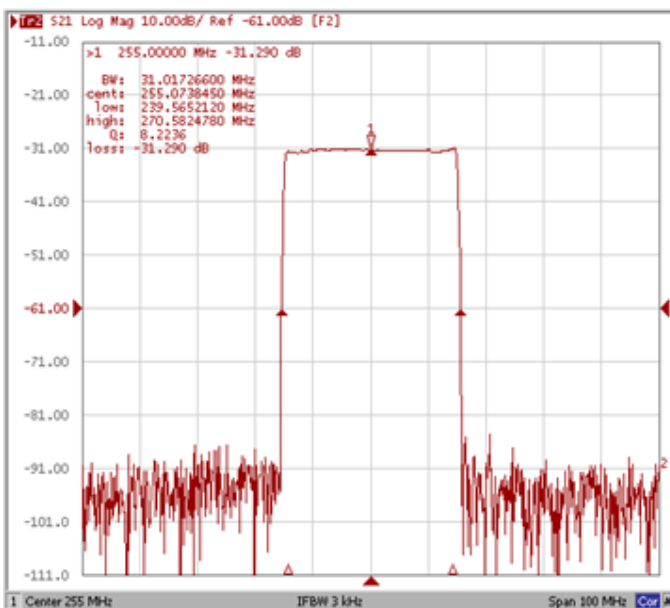
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



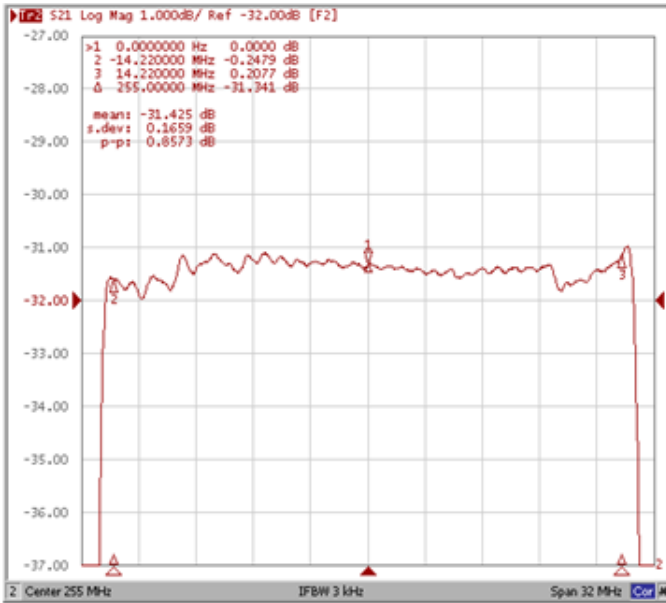
Bandwidth at -30.0 dB

Bandwidth at -40.0 dB

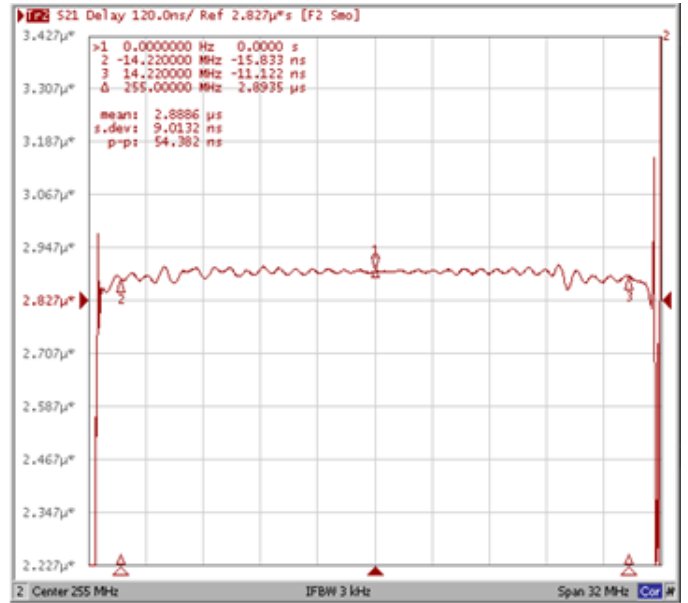


Frequency Response

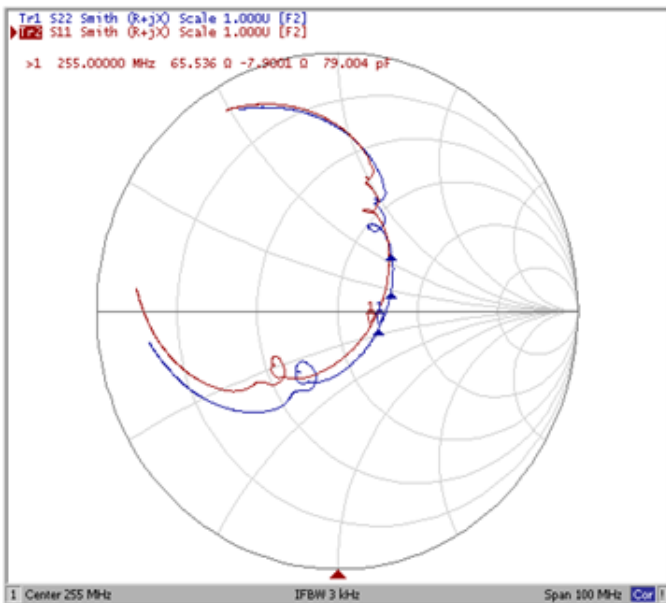
Ripple Variation Fo±14.22MHz



Group Delay Variation Fo±14.22MHz



Smith Chart



VSWR

