

- 295.0 MHz IF SAW Filter / 14.00 MHz Bandwidth
- Revision 0: 23 Oct. 2012

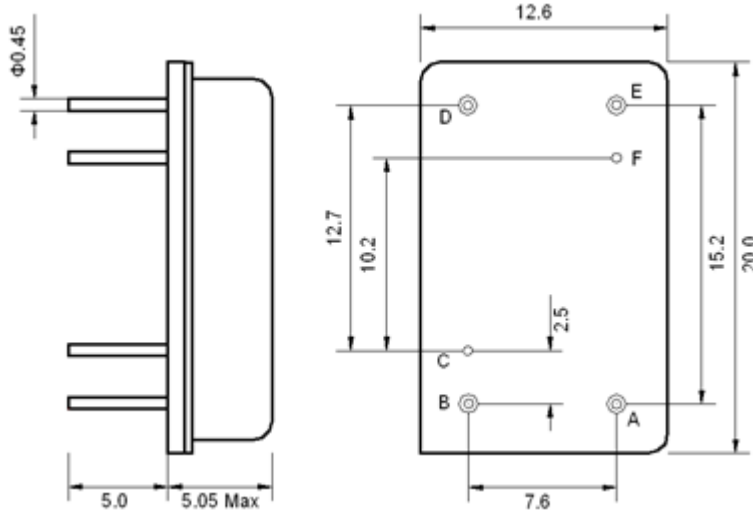
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	-
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	-	295.0	-
Insertion Loss at Fo	dB	-	29.0	30.50
Amplitude Ripple Variation (Fo±6.75MHz)	dB _{p-p}	-	0.70	1.20
Group Delay Variation (Fo±6.75MHz)	nsec	-	65	120
Absolute Delay at Fo	µsec	-	2.26	-
Bandwidth at -1.0 dB	MHz	13.75	14.00	-
Bandwidth at -3.0 dB	MHz	-	14.30	-
Bandwidth at -20.0 dB	MHz	-	15.16	-
Bandwidth at -45.0 dB	MHz	-	15.68	15.80
Ultimate Rejection	dB	50	55	-
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.

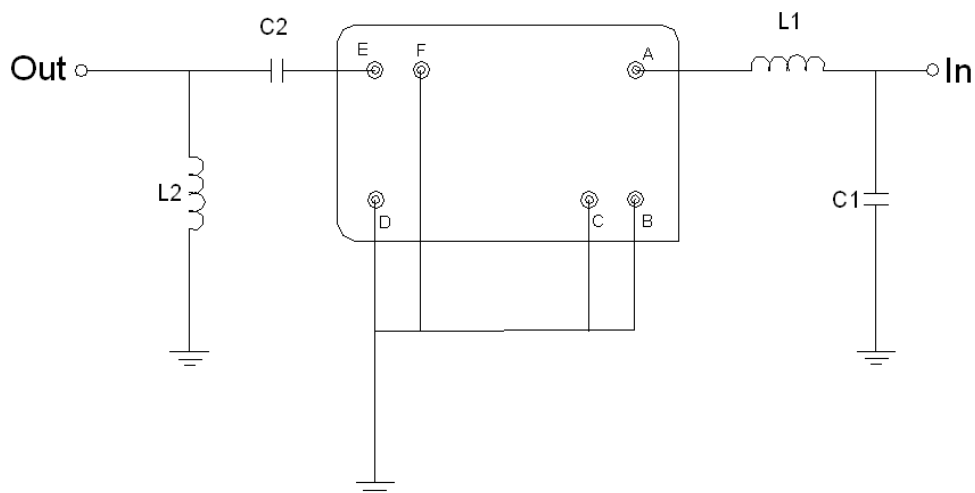
Package Dimensions



Pin Description

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

Testing Environment



Test Fixture & Values

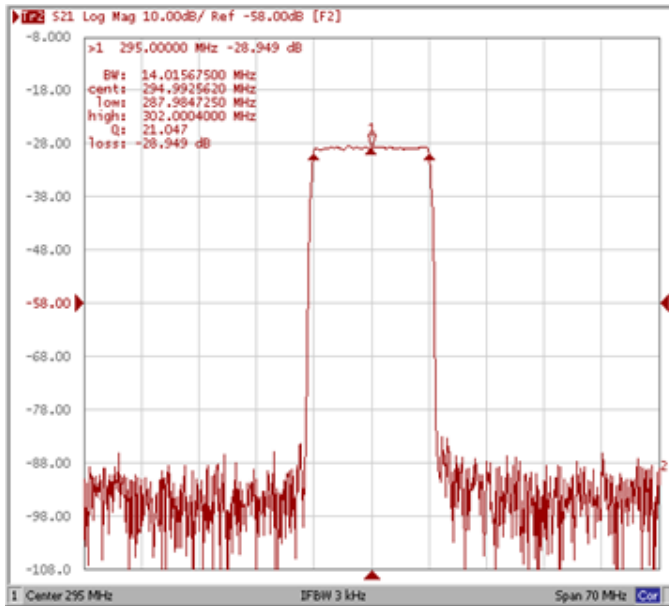
Input	L1= 10 nH, C1=18 pF
Output	L2= 18 nH, C2=18 pF
Source/Load Impedance	50 Ω

Frequency Characteristics

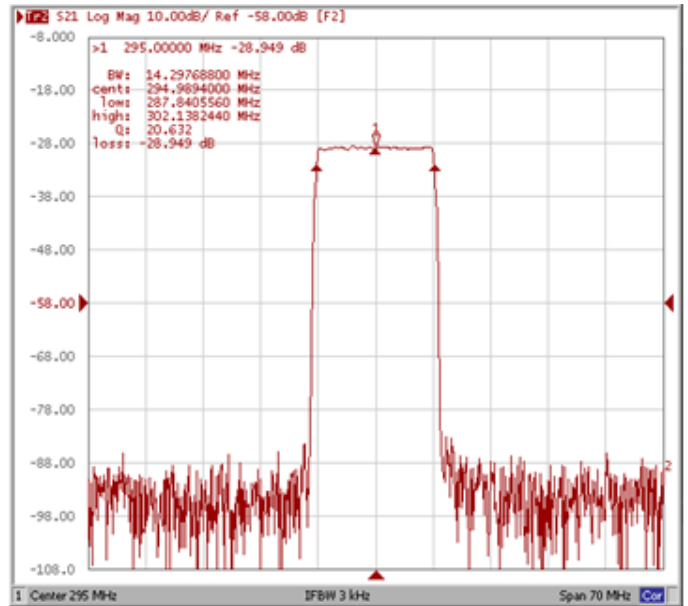
Frequency Response

Operating Temperature: +25°C

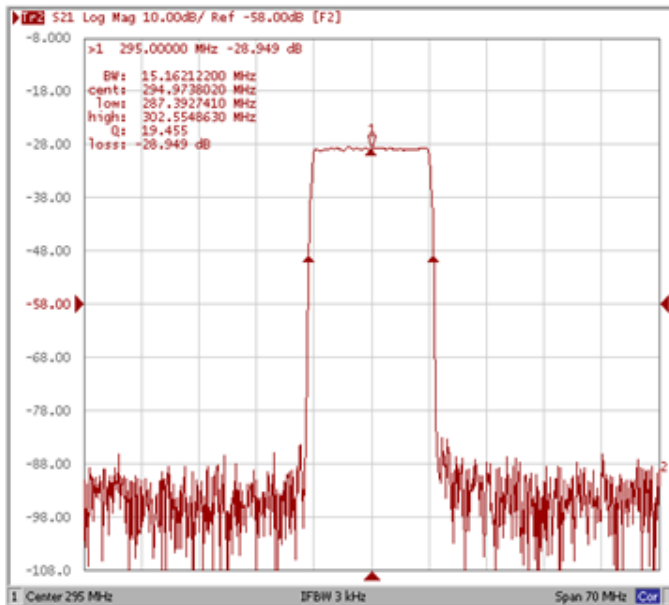
Bandwidth at -1.0 dB



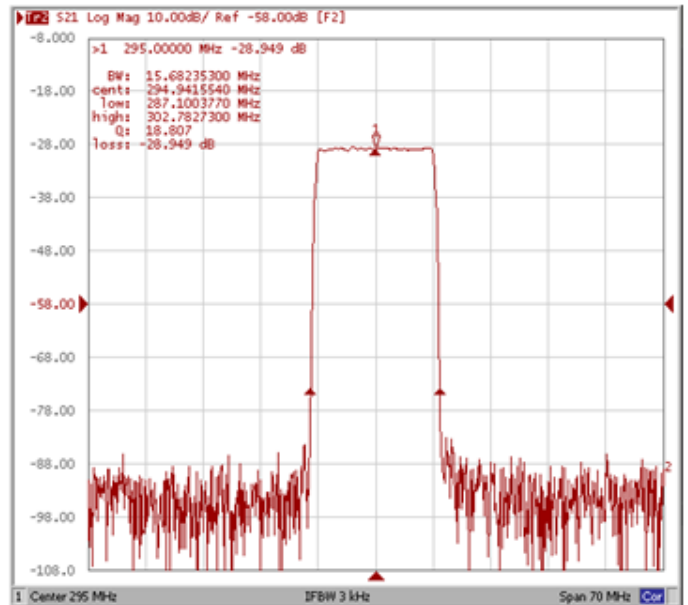
Bandwidth at -3.0 dB



Bandwidth at -20.0 dB



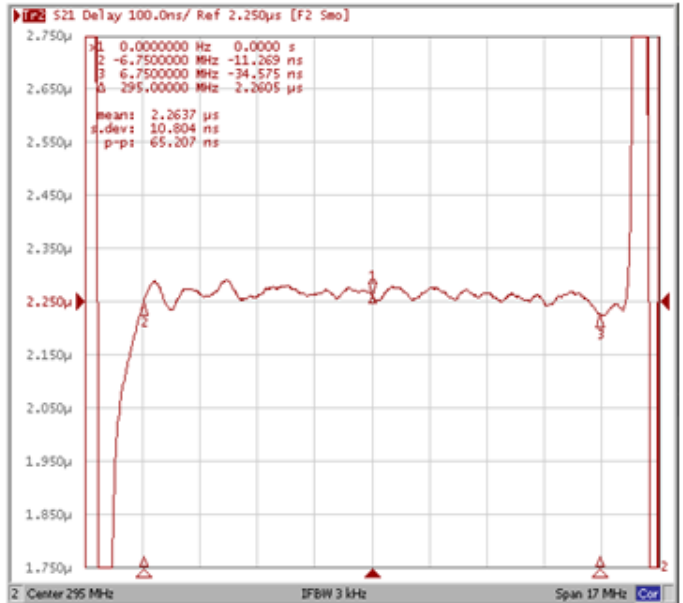
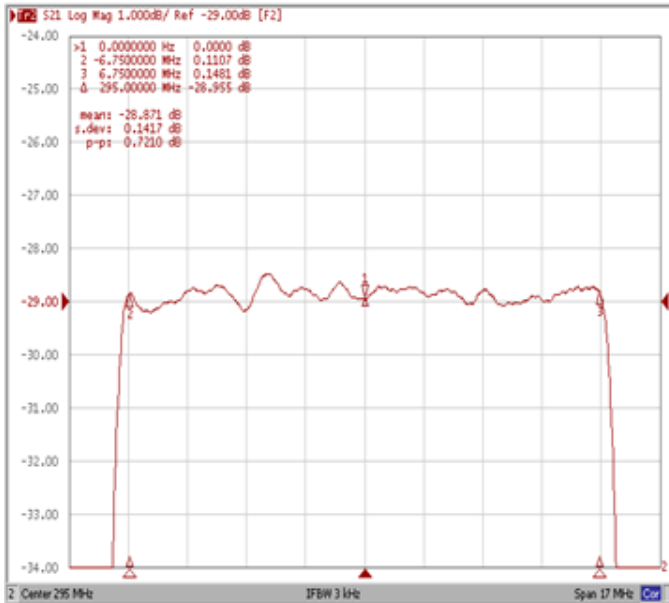
Bandwidth at -45.0 dB



Frequency Response

Ripple Variation Fo±6.75 MHz

Group Delay Variation Fo±6.75 MHz



Smith Chart

VSWR

