

- 69.9 MHz IF SAW Filter / 19.49 MHz Bandwidth
- Revision 0: 18 January 2012

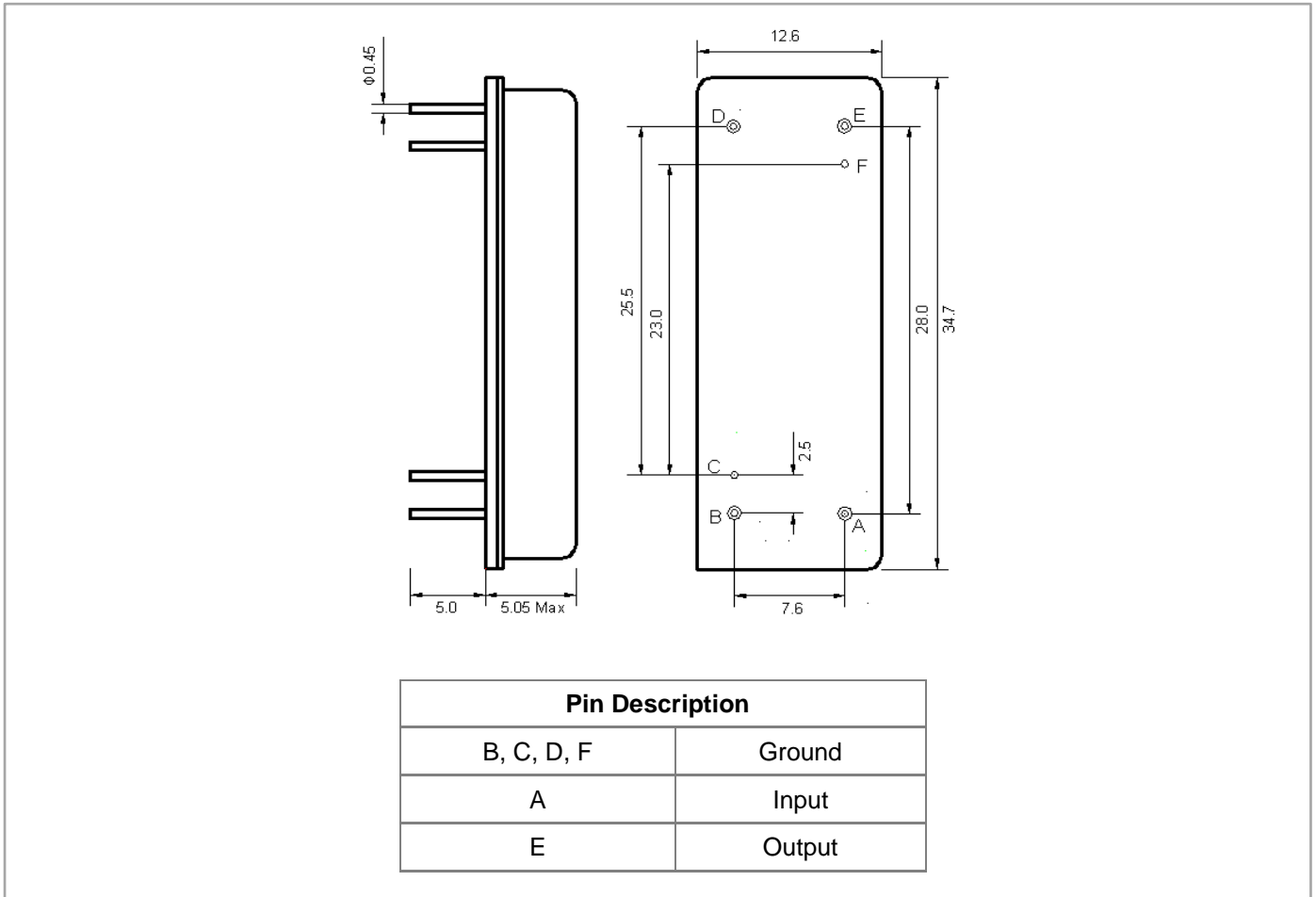
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	F			
Length x Width	mm ²	-	34.7 x 12.6	-
Height	mm	-	-	5.05

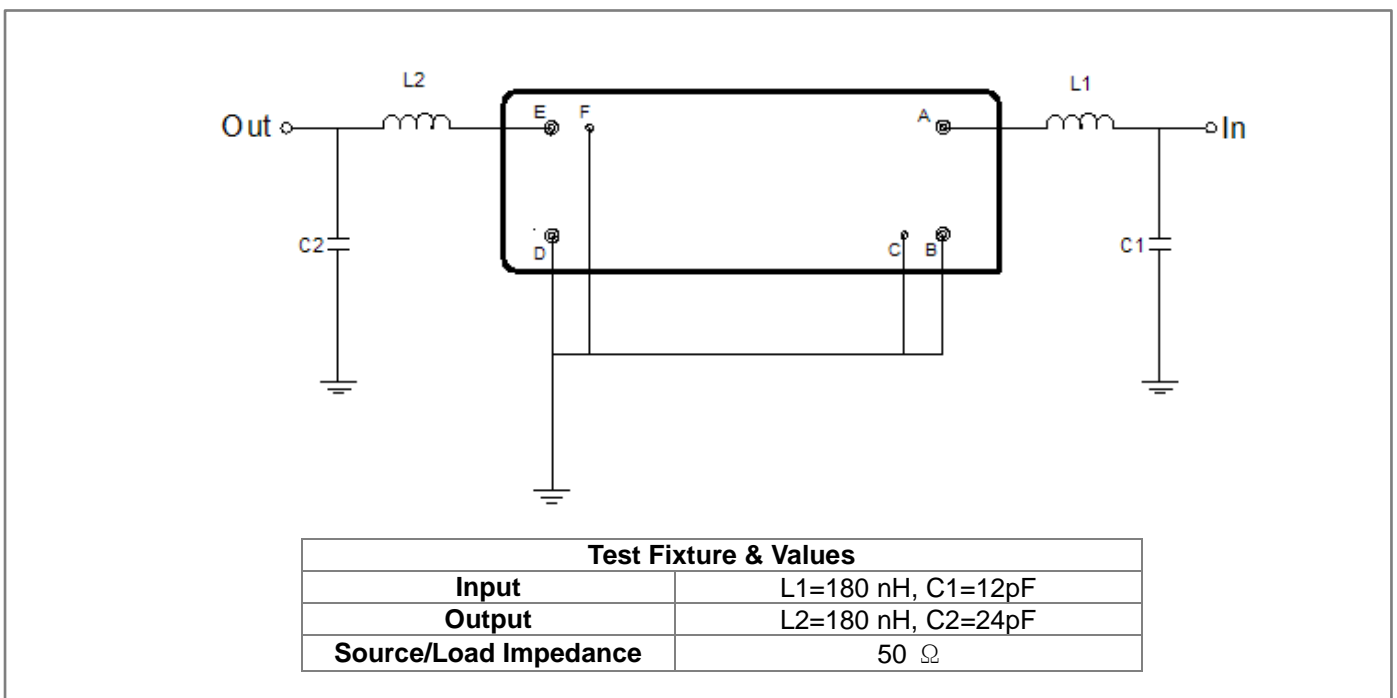
ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	69.90	-
Insertion Loss at Fo	dB	-	22.50	24.00
Amplitude Ripple Variation (Fo±9.5MHz)	dB _{p-p}	-	0.55	1.00
Group Delay Variation (Fo±9.5MHz)	nsec	-	52	90
Absolute Delay at Fo	µsec	-	2.79	-
Bandwidth at -1.0 dB	MHz	19.30	19.49	-
Bandwidth at -3.0 dB	MHz	-	19.75	-
Bandwidth at -40.0 dB	MHz	-	20.82	-
Bandwidth at -50.0 dB	MHz	-	20.94	21.00
Ultimate Rejection	dB	50	52	-
Temperature Coefficient	ppm/°C	-	-72	-

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



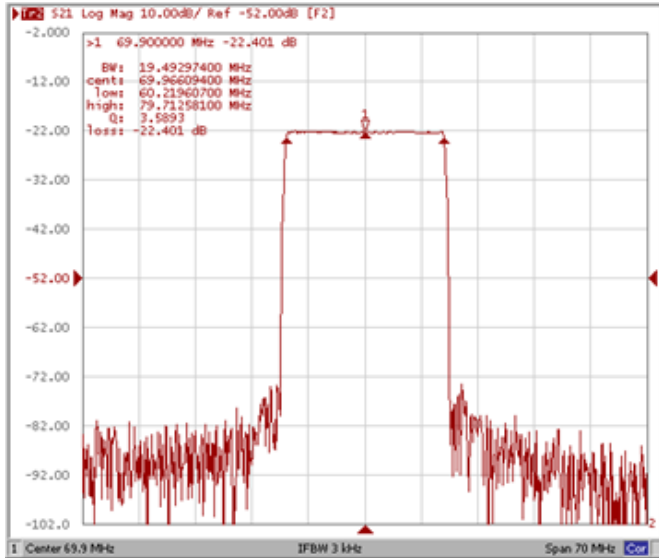
Testing Environment



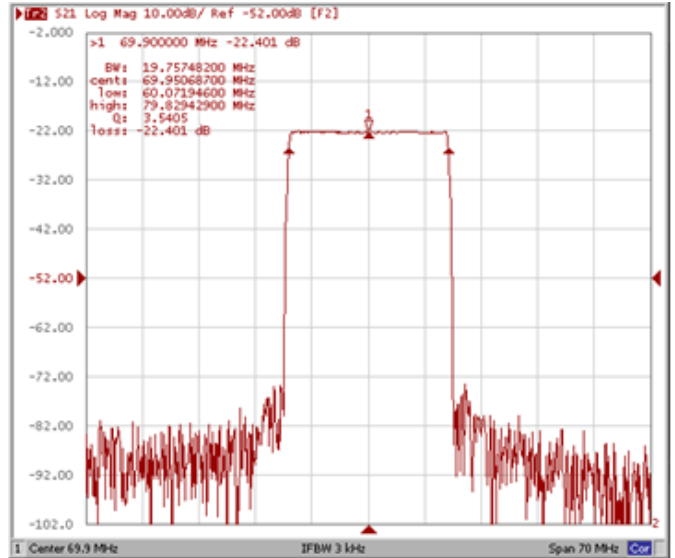
Frequency Characteristics

Frequency Response

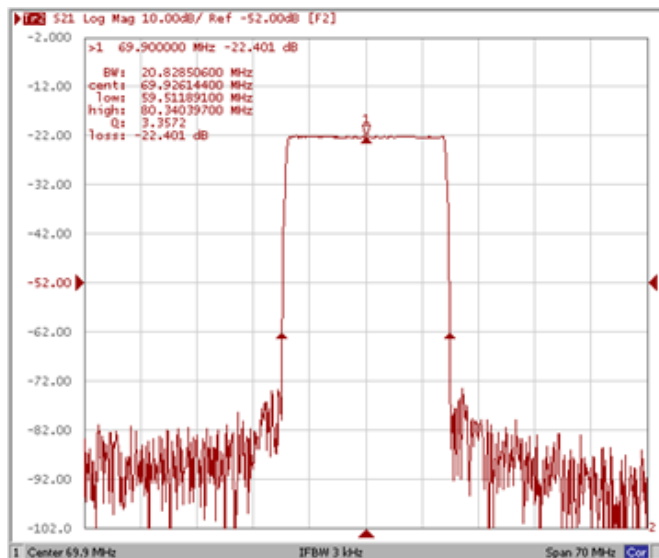
Bandwidth at -1.0 dB



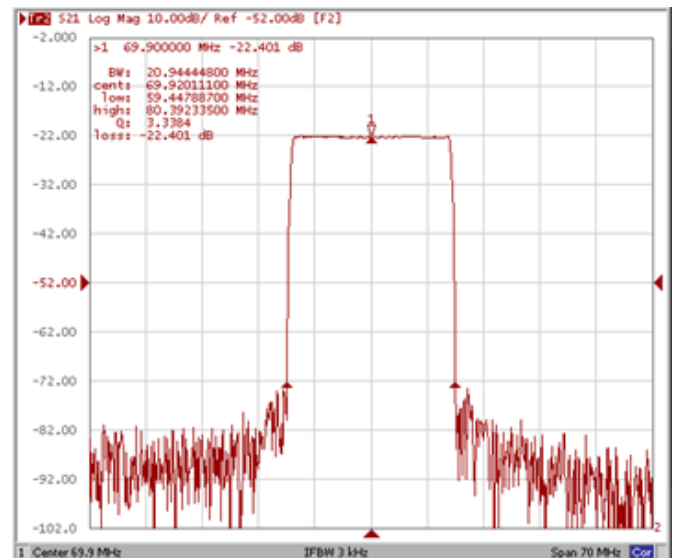
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

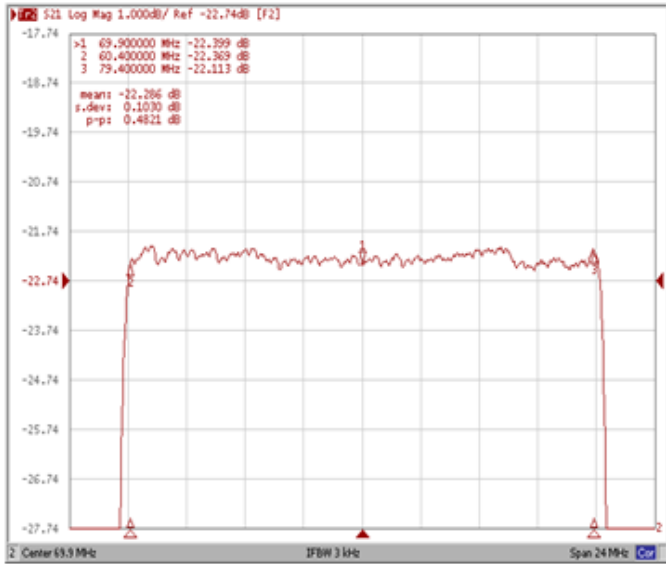


Bandwidth at -50.0 dB

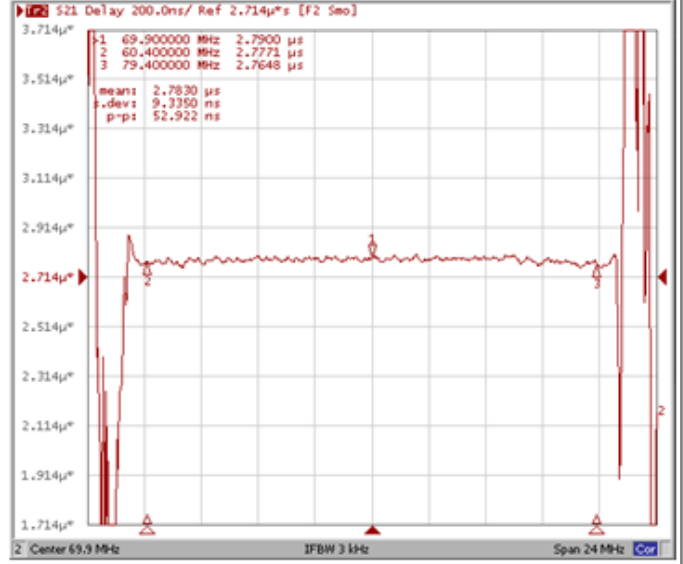


Frequency Response

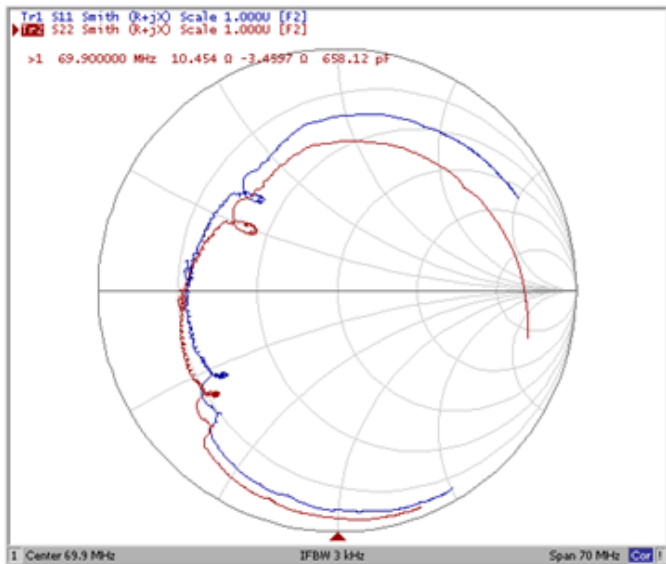
Ripple Variation (Fo±9.5MHz)



Group Delay Variation (Fo±9.5MHz)



Smith Chart



VSWR

