

- 123.0 MHz IF SAW Filter / 5.53 MHz Bandwidth
- Revision 0: 18 July 2012

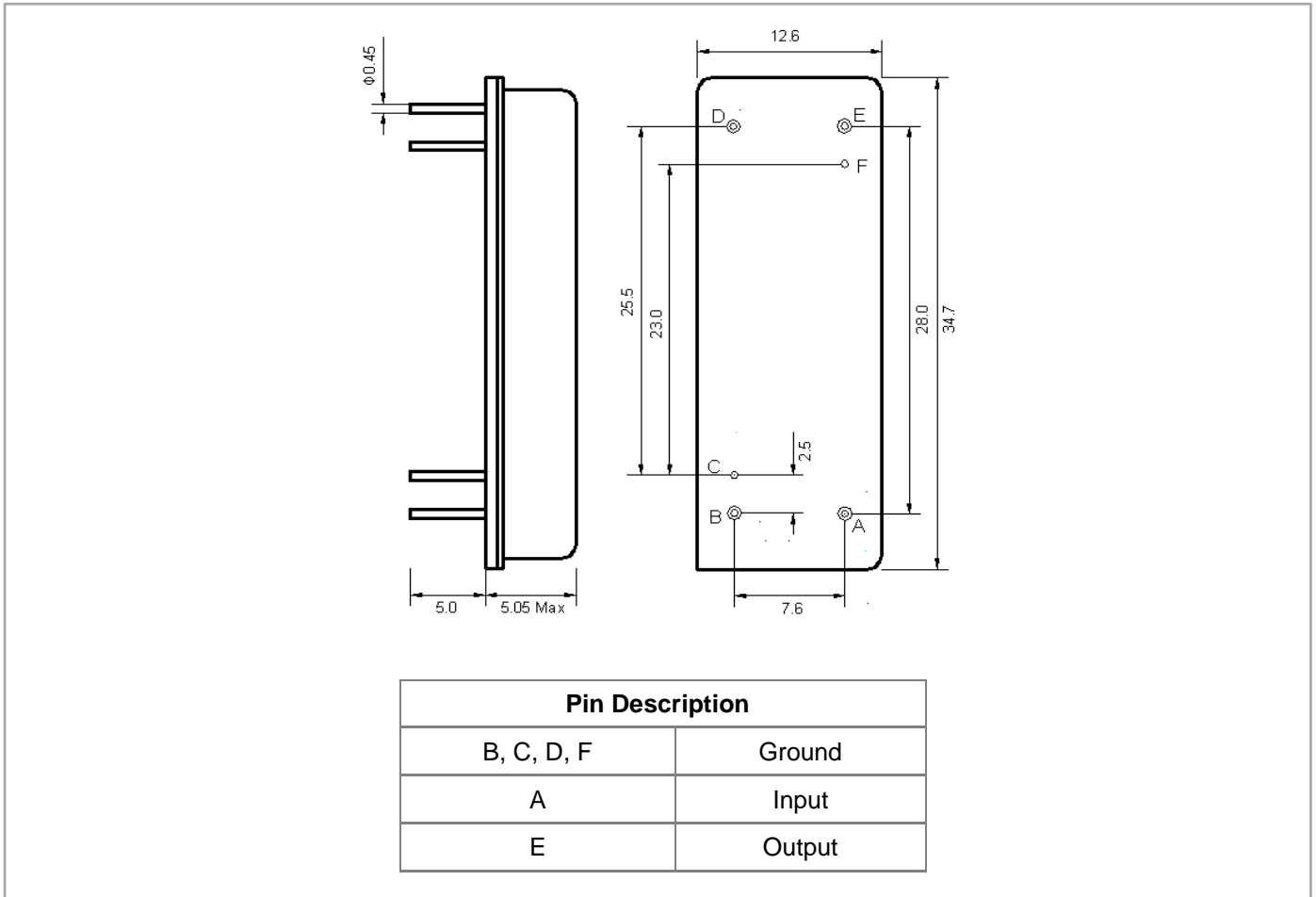
## Electrical Characteristics

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) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	F			
Length x Width	mm <sup>2</sup>	-	34.7 x 12.6	-
Height	mm	-	-	5.05

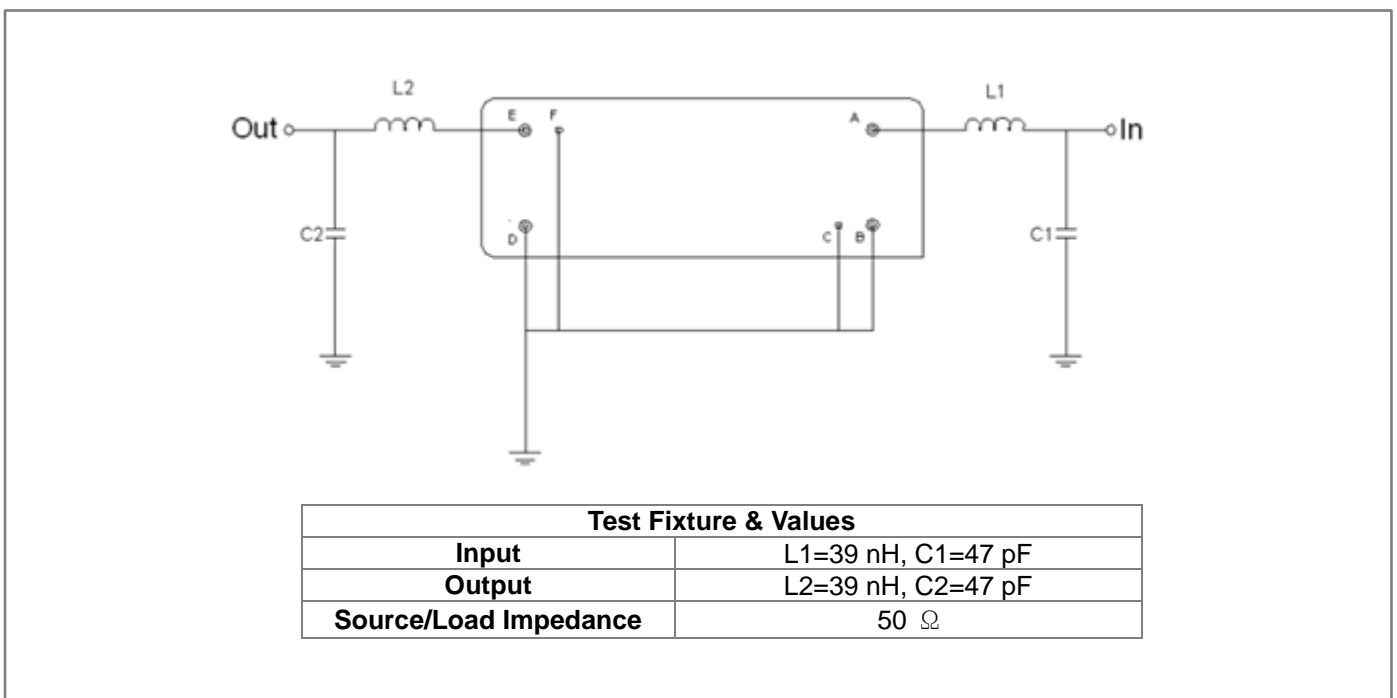
ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	123.0	-
Insertion Loss at Fo	dB	-	23.0	25.0
Amplitude Ripple Variation at Fo ± 2.69 MHz	dB <sub>p-p</sub>	-	0.65	1.00
Group Delay Variation at Fo ± 2.69 MHz	nsec	-	100	200
Absolute Delay at Fo	μsec	-	4.98	-
Temperature Coefficient	ppm/°C	-	-20	-
Bandwidth at -1.0 dB	MHz	5.40	5.53	-
Bandwidth at -3.0 dB	MHz	-	5.70	-
Bandwidth at -40.0 dB	MHz	-	6.43	6.7
Ultimate Rejection	dB	50	55	-
Relative Attenuation				
118.75MHz	dB	50	55	
126.25MHz	dB	50	54	

**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

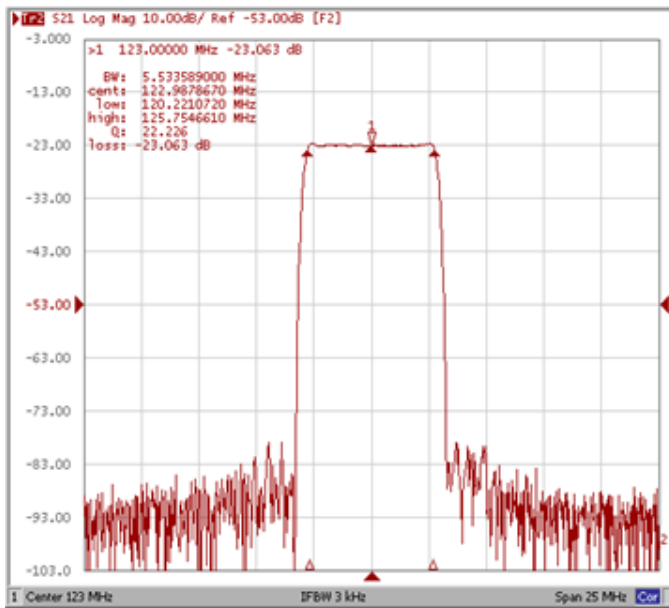


## Frequency Characteristics

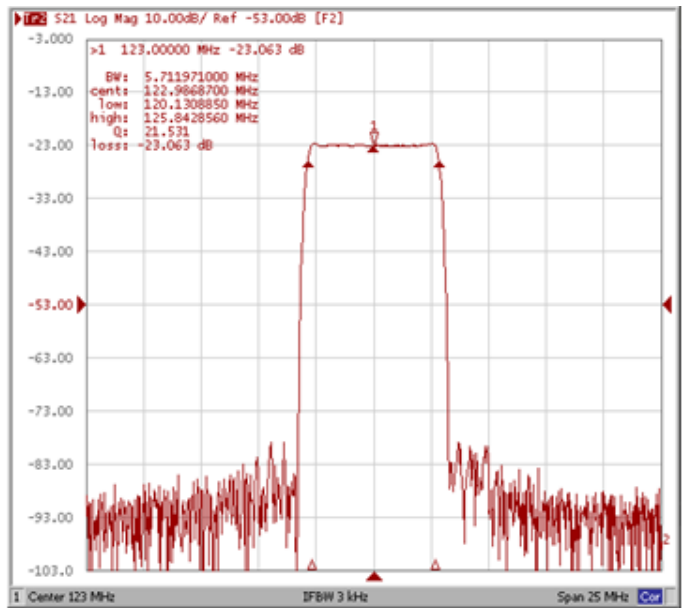
### Frequency Response

Operating Temperature: +25 °C

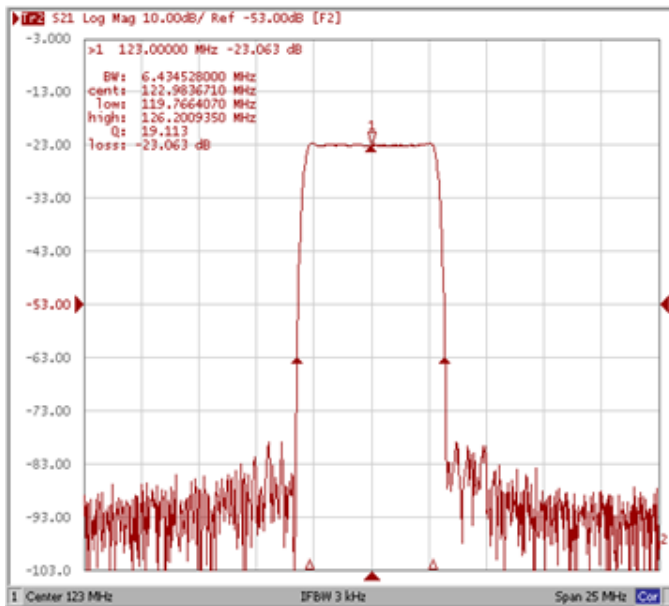
**Bandwidth at -1.0 dB**



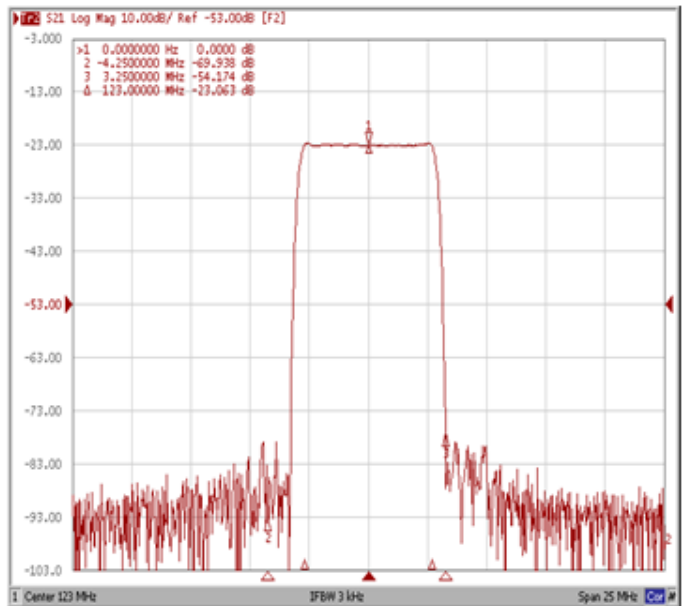
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**

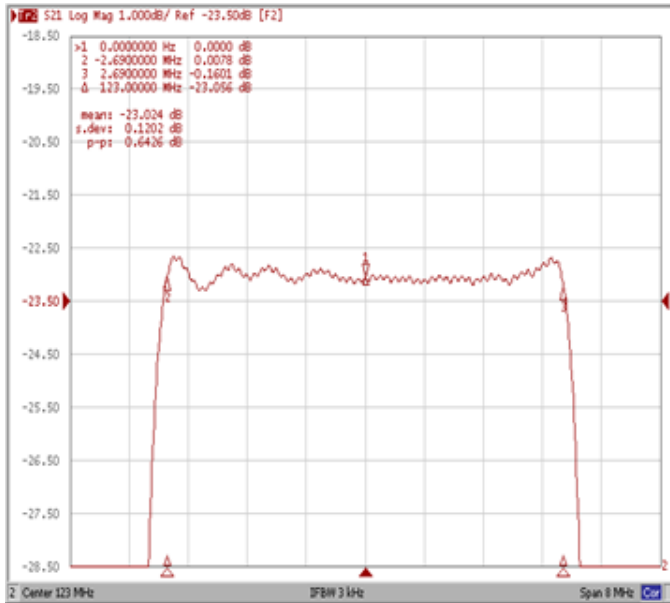


**Relative Attenuation**

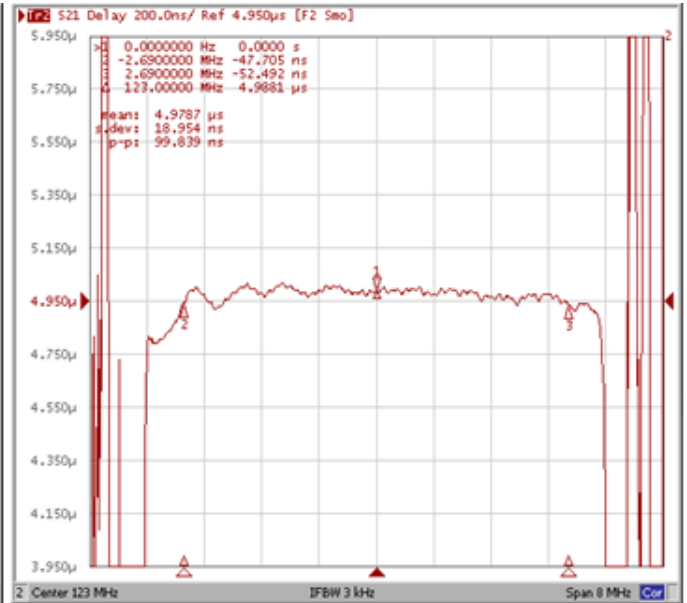


**Frequency Response**

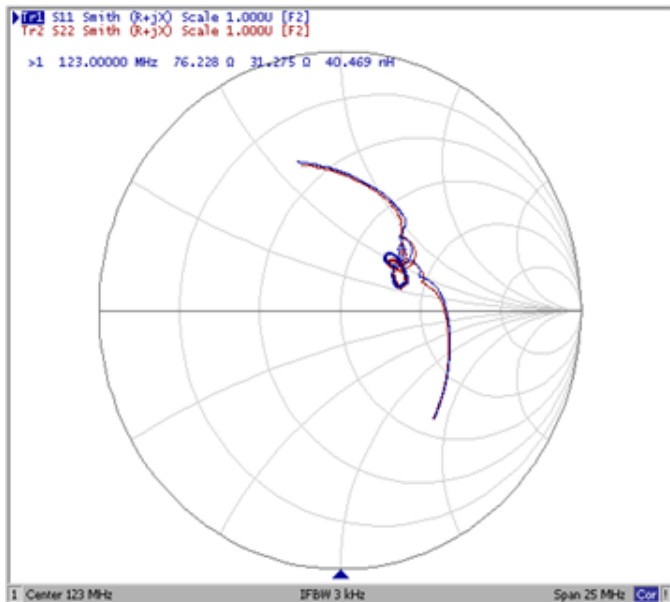
**Ripple Variation Fo±2.69MHz**



**Group Delay Variation Fo±2.69MHz**



**Smith Chart**



**SWR**

