

- 42.50 MHz IF SAW Filter / 4.86 MHz Bandwidth
- Revision 0: 29 Nov. 2012

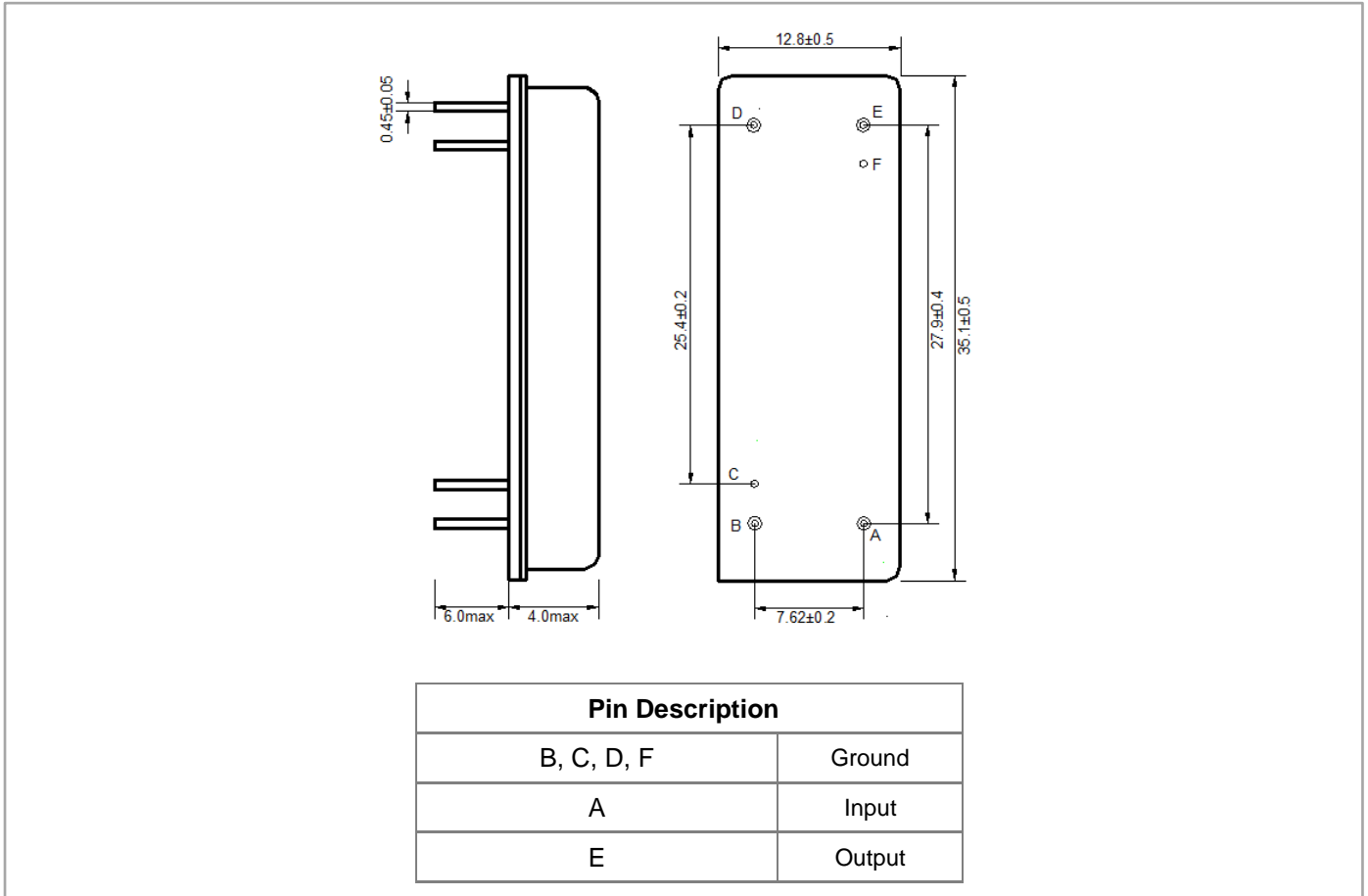
## Electrical Characteristics

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	D70			
Length x Width	mm <sup>2</sup>	-	35.1 x 12.8	-
Height	mm	-	-	4.00

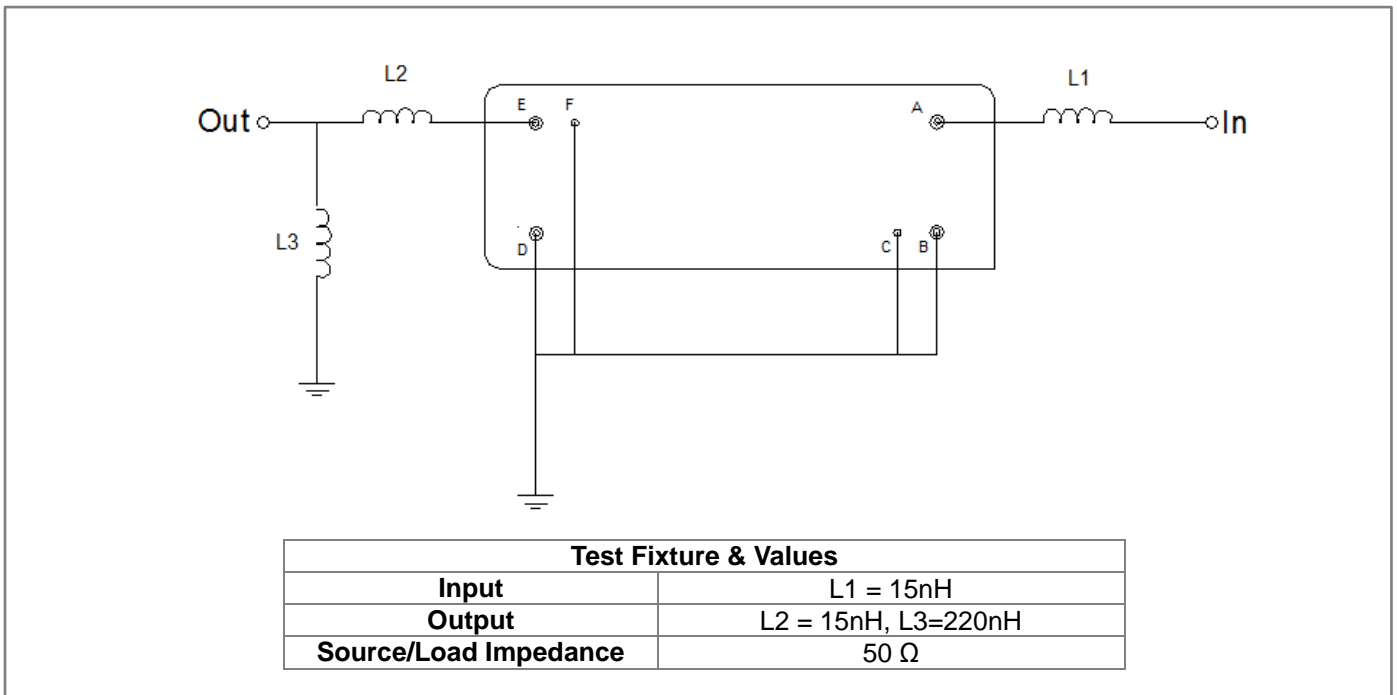
ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	42.5	-
Insertion Loss at Fo	dB	-	20.5	23.0
Group Delay Variation at Fo ± 2.25 MHz	nsec	-	105	160
Absolute Delay at Fo	usec	-	3.26	-
Passband Ripple Variation at Fo ± 2.25 MHz	dB	-	0.6	1.0
Bandwidth at -1dB	MHz	4.75	4.83	-
Bandwidth at -3dB	MHz	-	5.04	-
Bandwidth at -45dB	MHz	-	5.96	6.10
Ultimate Rejection	dB	45	53	-
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

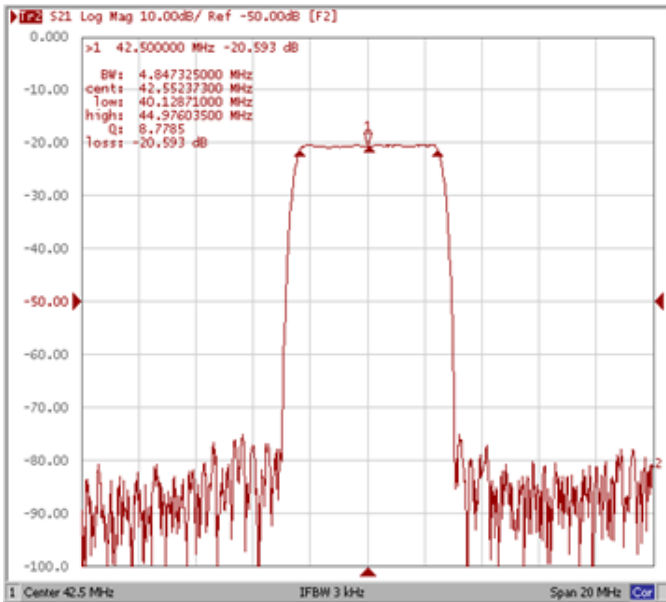


## Frequency Characteristics

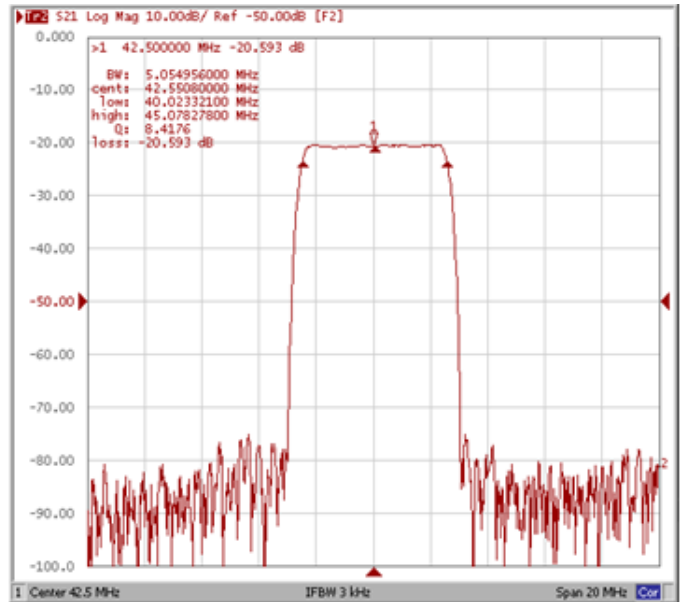
### Frequency Response

Operating Temperature: +25°C

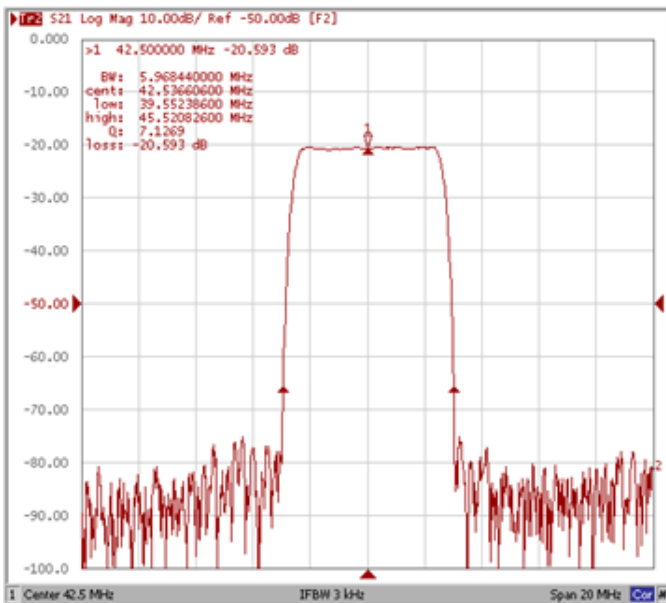
#### Bandwidth at -1.0 dB



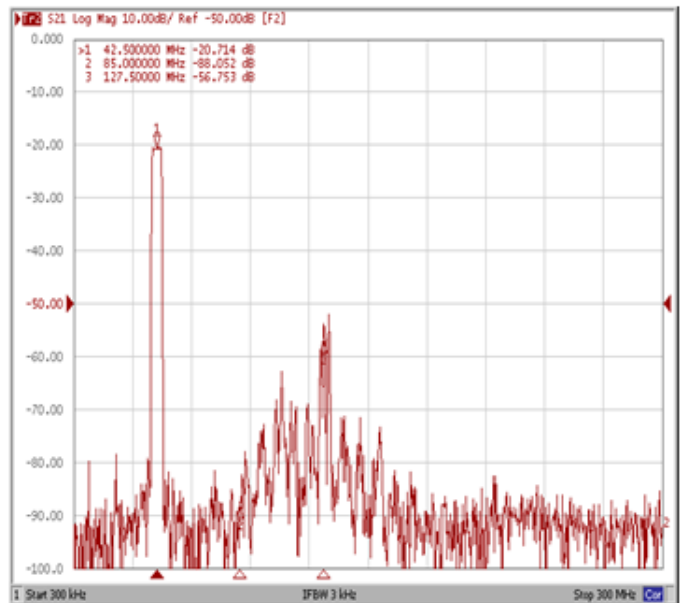
#### Bandwidth at -3.0 dB



#### Bandwidth at -45.0 dB

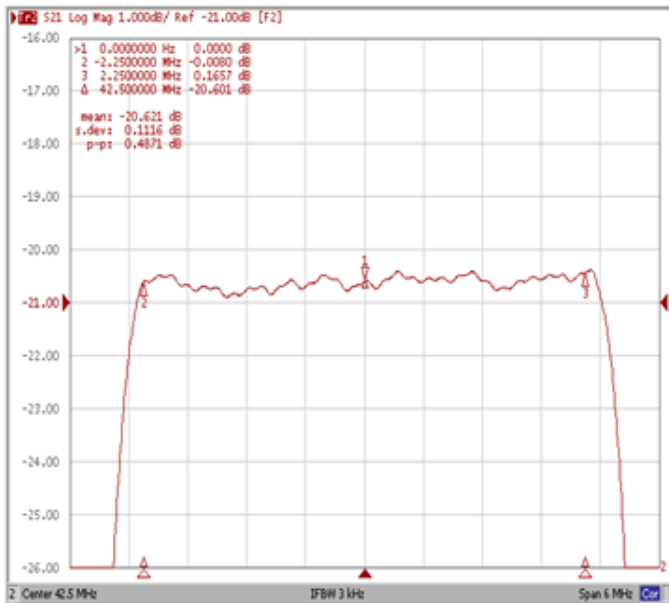


#### Wide-Band

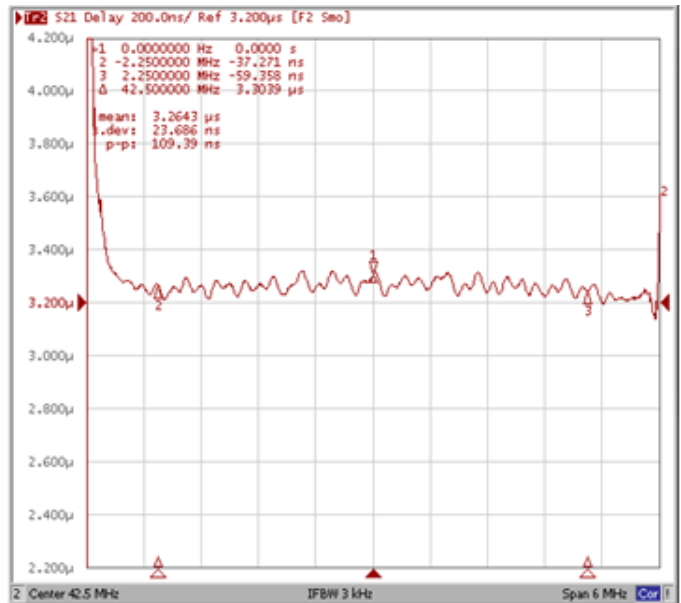


**Frequency Response**

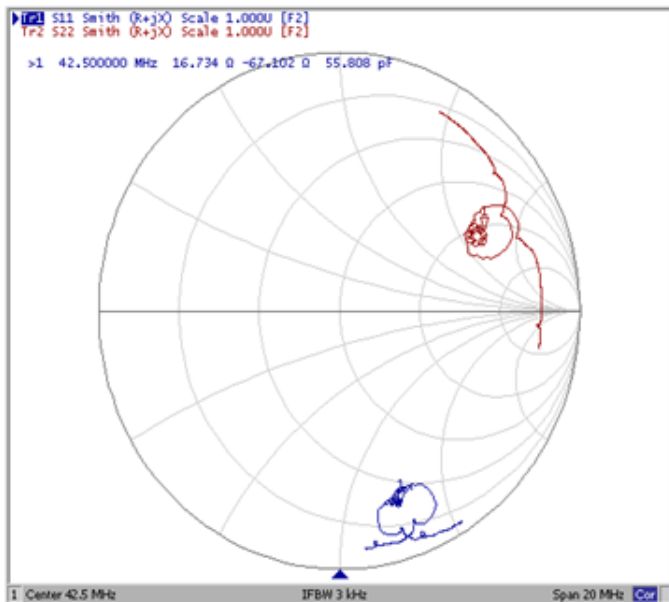
**Ripple Variation Fo±2.25MHz**



**Group Delay Variation Fo±2.25MHz**



**Smith Chart**



**VSWR**

