

- 44.0 MHz IF SAW Filter / 5.40 MHz Bandwidth
- Revision 0: 16 January 2008

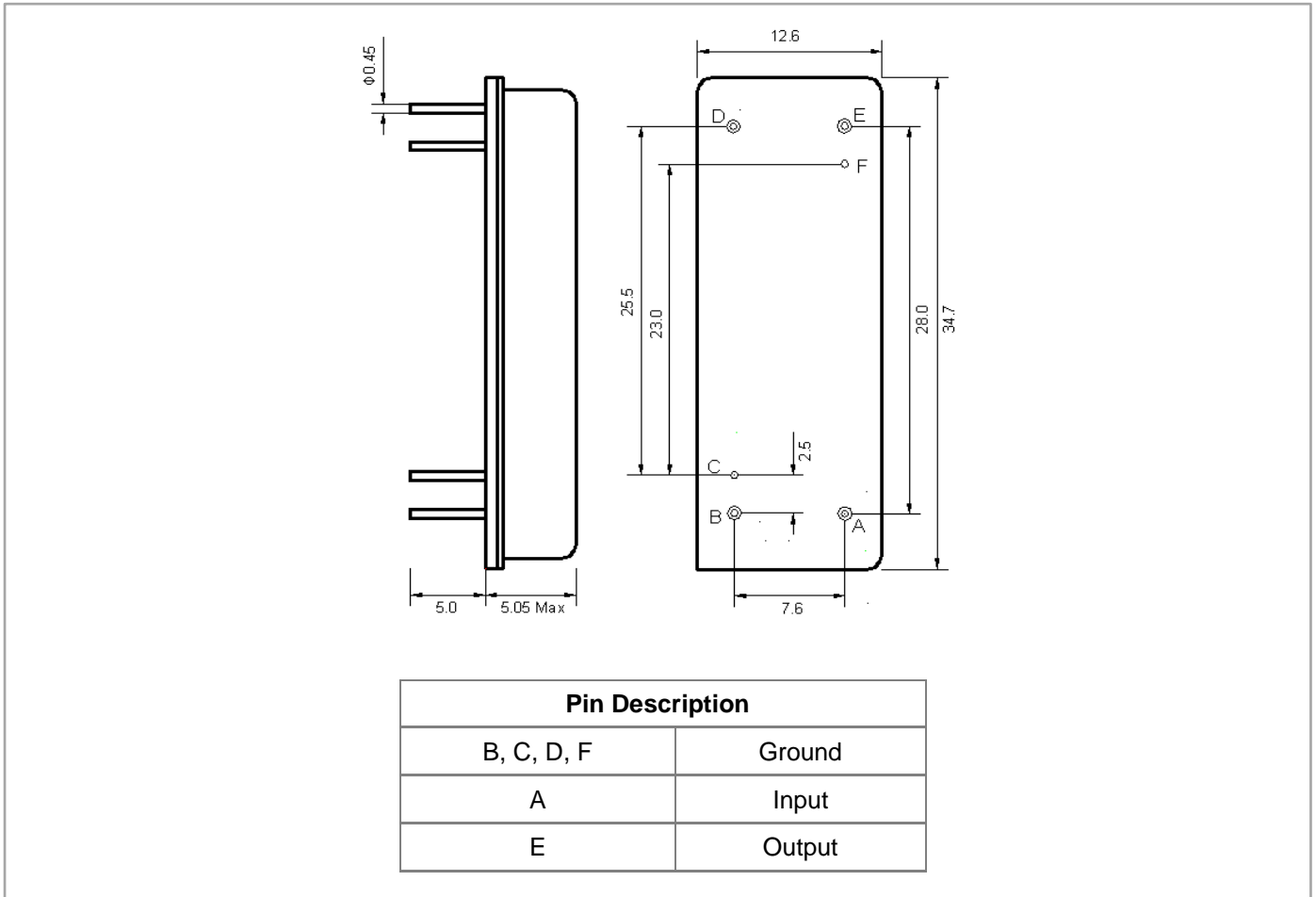
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-30	-	80
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

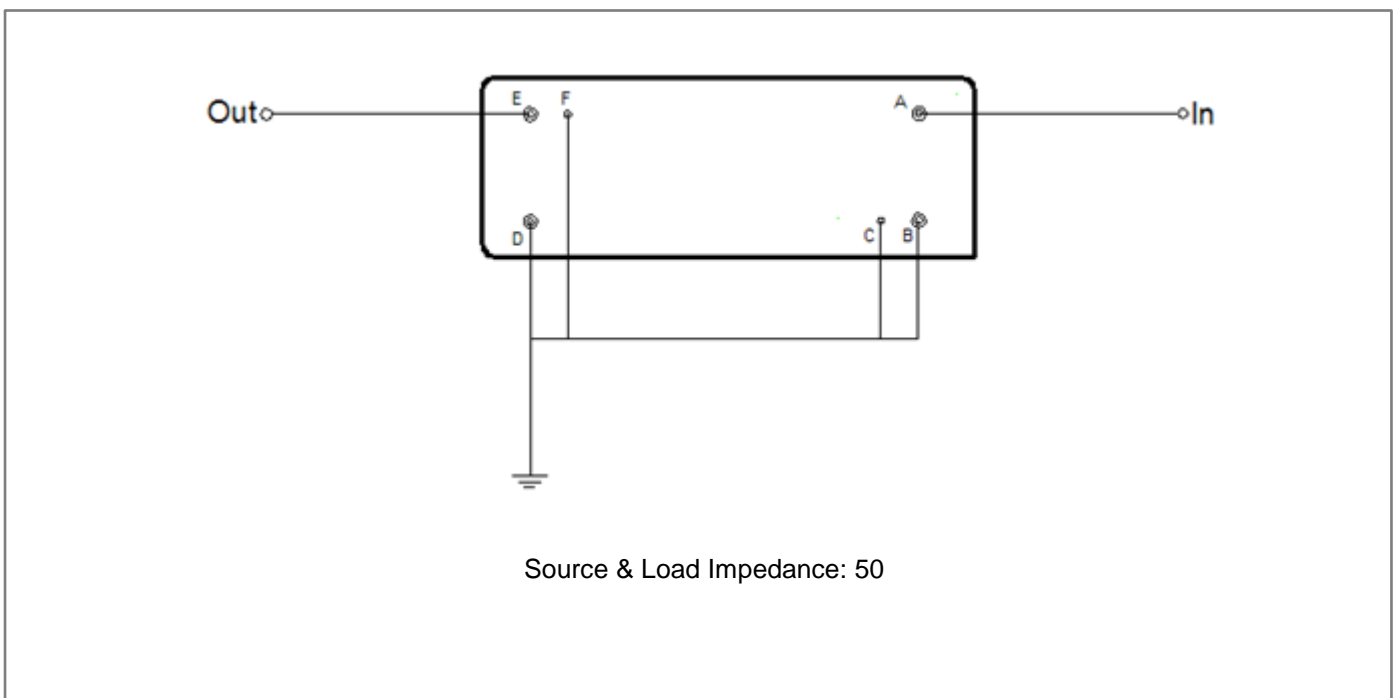
ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	43.95	44.0	44.05
Insertion Loss at Fo	dB	-	25.0	26.5
Amplitude Ripple Variation at Fo ± 2.7 MHz	dB _{p-p}	-	0.5	0.8
Group Delay Variation at Fo ± 2.7 MHz	nsec	-	60	100
Absolute Delay at Fo	μsec	-	4.1	-
Temperature Coefficient	ppm/°C	-	-94	-
Bandwidth at -1.0 dB	MHz	5.5	5.70	-
Bandwidth at -3.0 dB	MHz	5.8	5.88	-
Bandwidth at -40.0 dB	MHz	-	6.65	6.8
Ultimate Rejection	dB	45	50	-

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

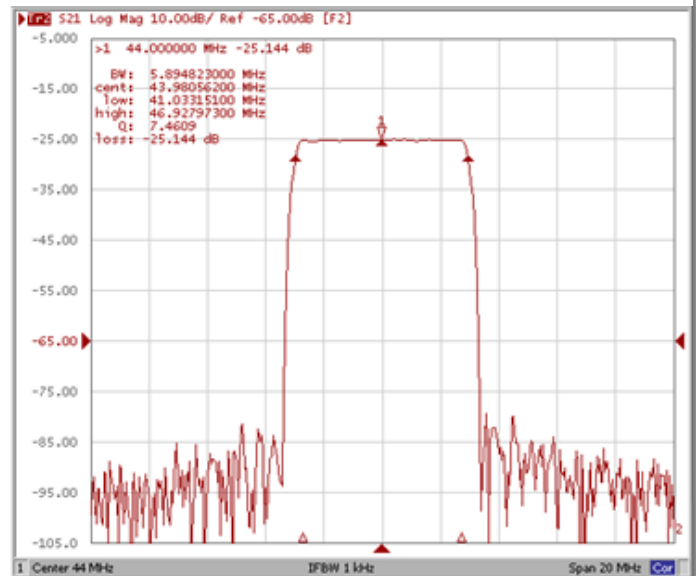
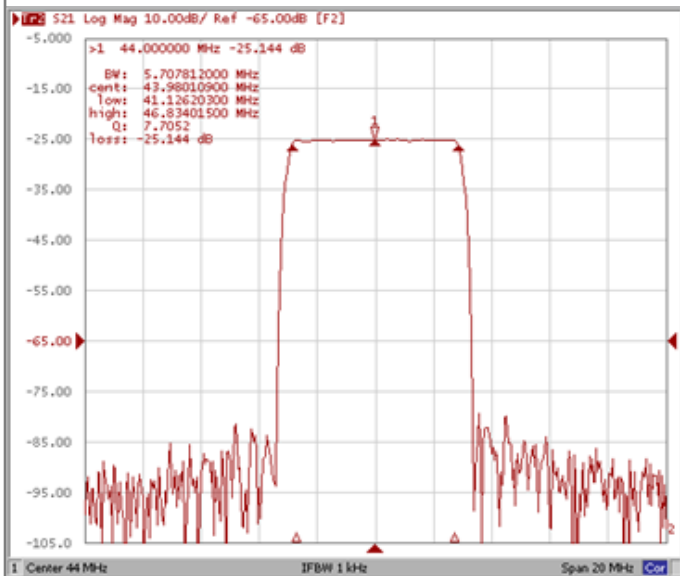


Frequency Characteristics

Frequency Response

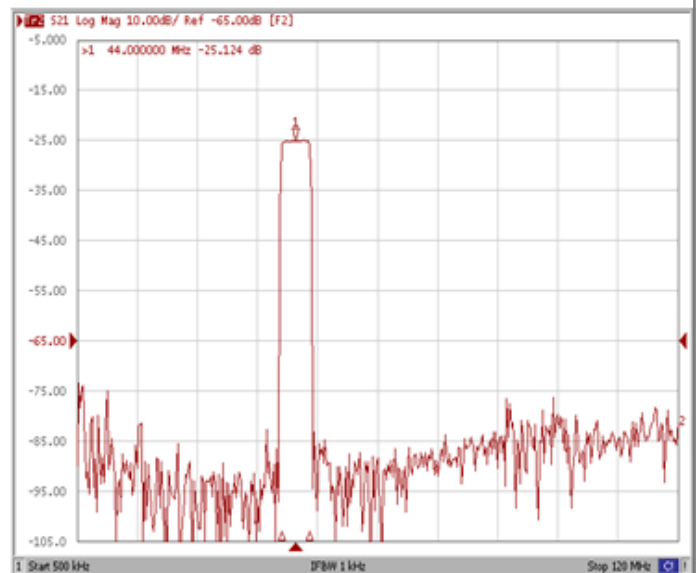
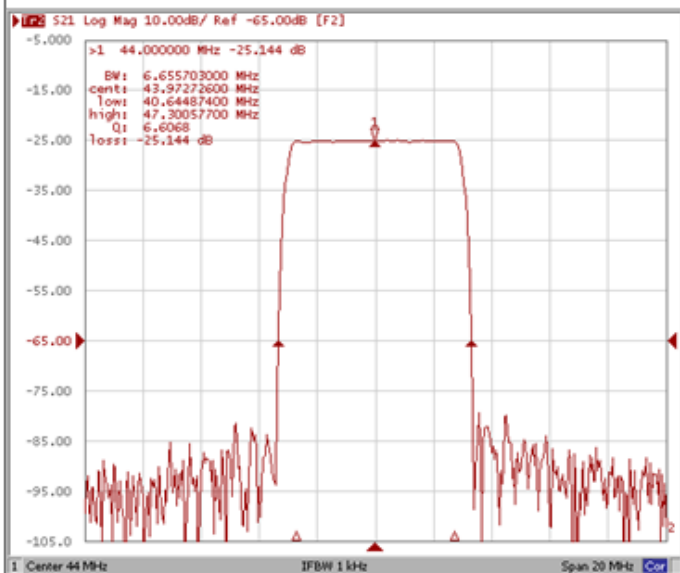
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



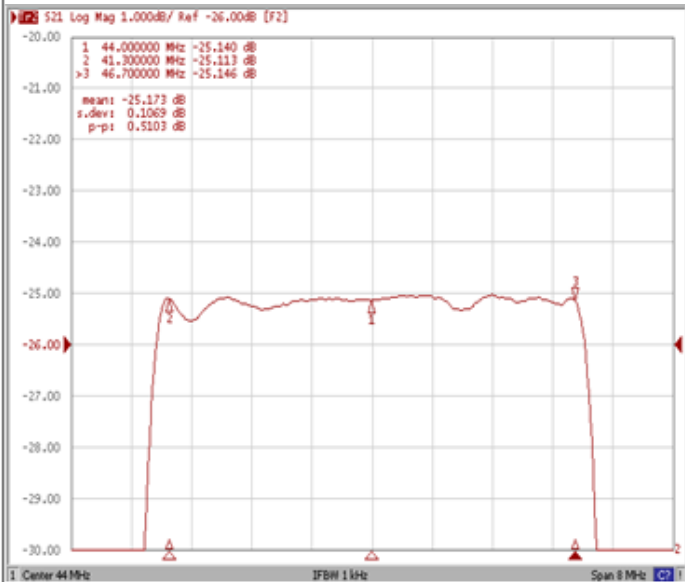
Bandwidth at -40.0 dB

Wide-Band

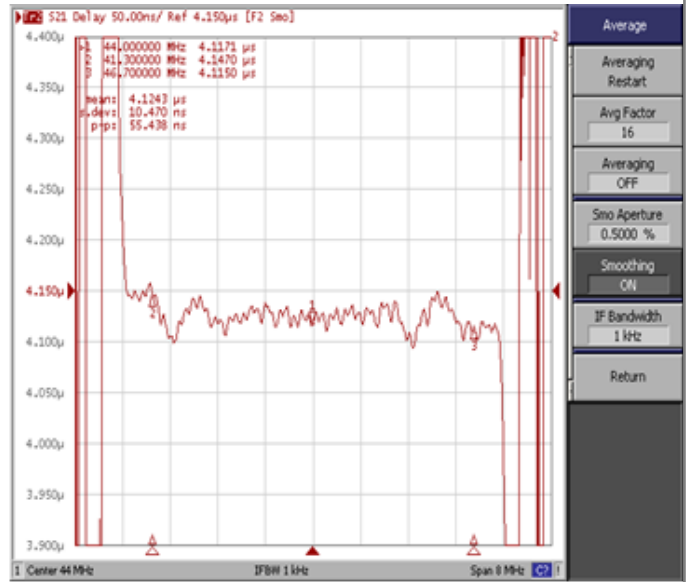


Frequency Response

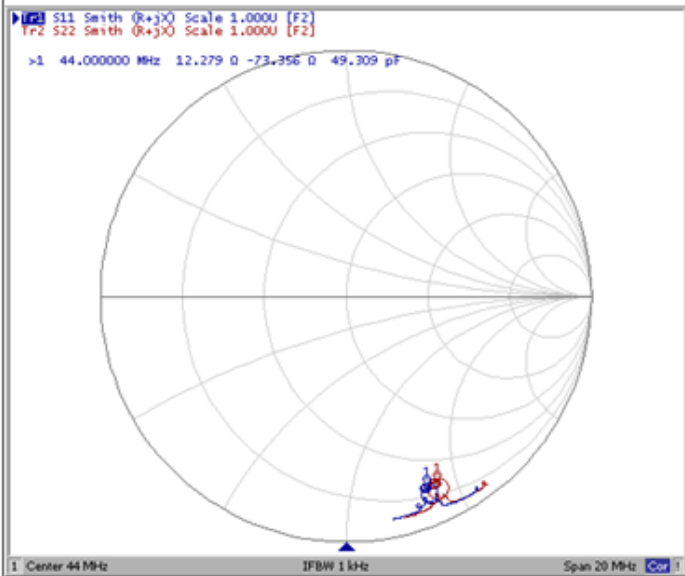
Ripple Variation (Fo±2.7MHz)



Group Delay Variation (Fo±2.7MHz)



Smith Chart



SWR

