

- 43.75 MHz IF SAW Filter / 5.33 MHz Bandwidth
- Revision 0: 17 March 2008

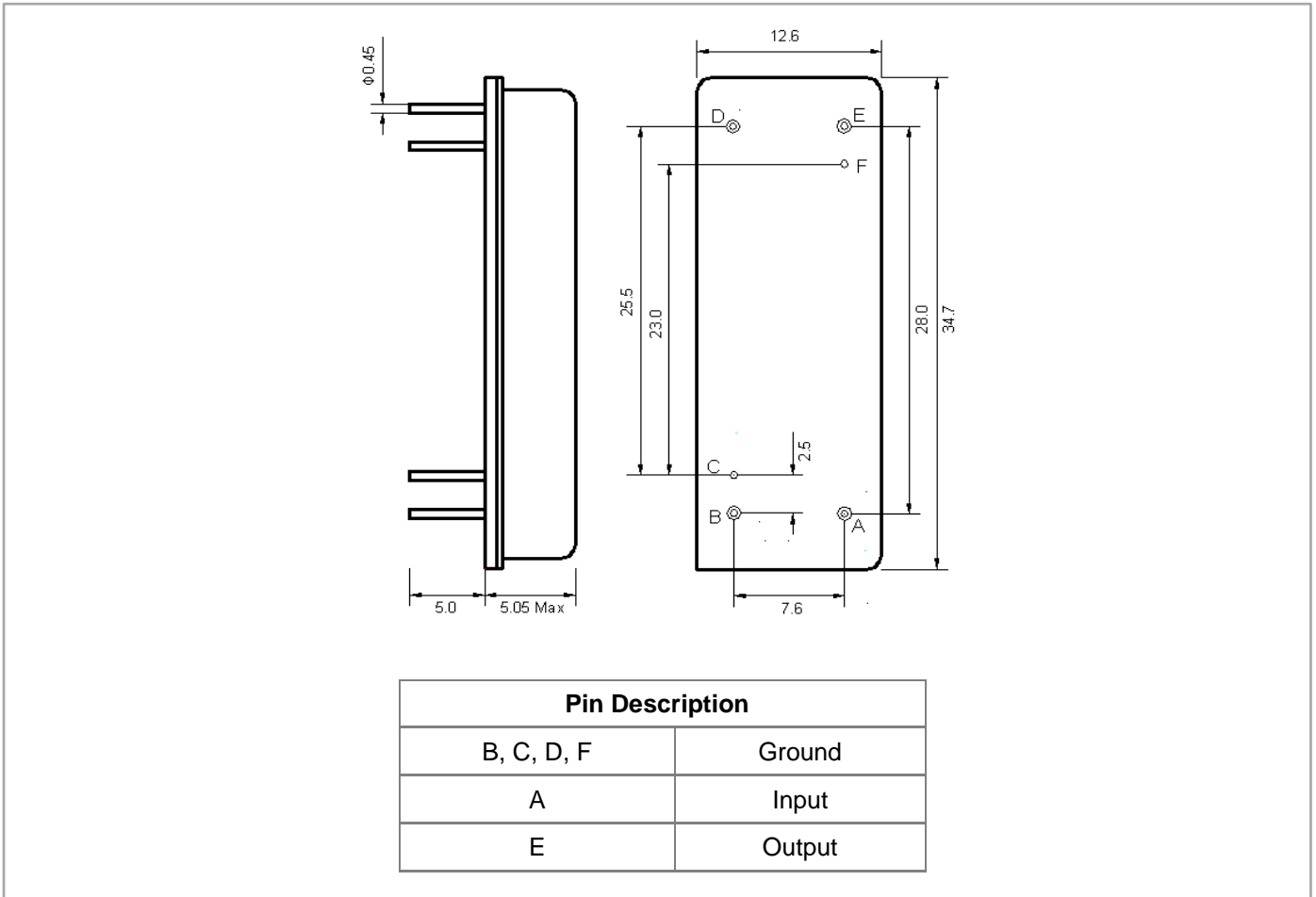
Electrical Characteristics

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

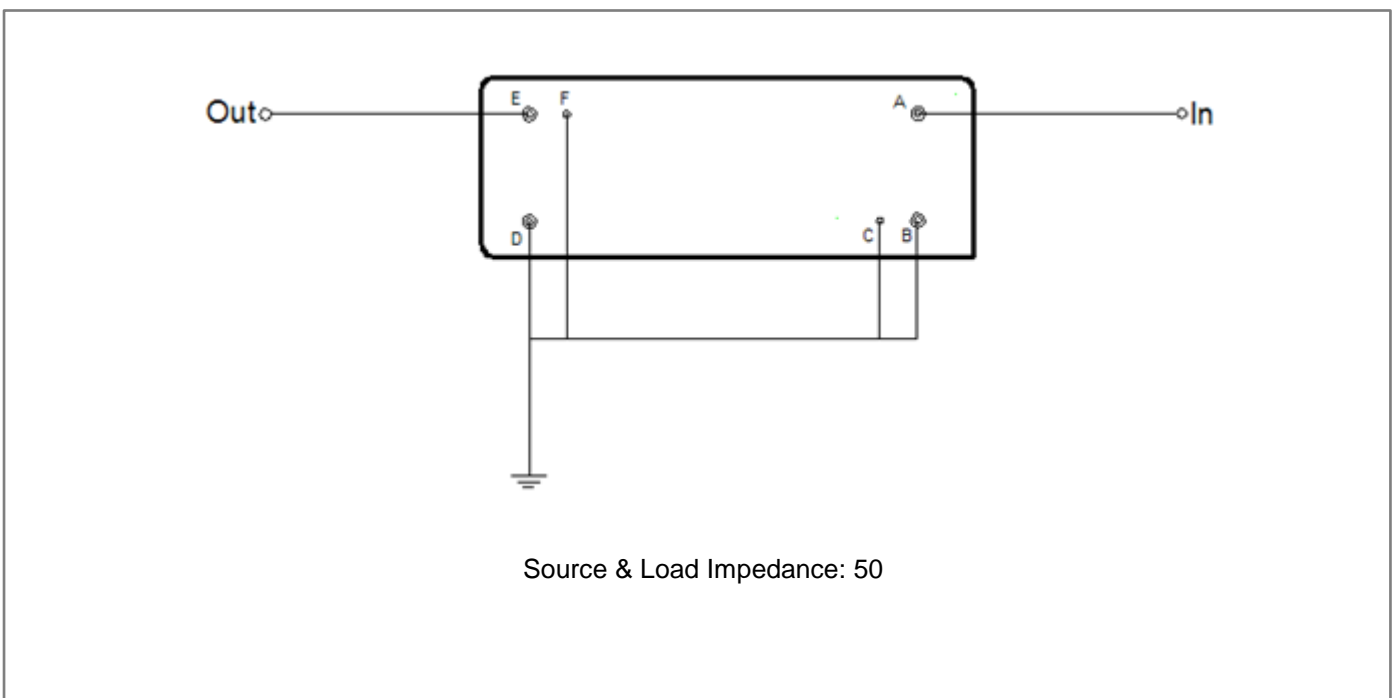
ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	43.75	-
Insertion Loss at Fo	dB	-	24.0	26.0
Amplitude Ripple Variation at 41.25 ~ 45.75 MHz	dB _{p-p}	-	0.5	0.8
Group Delay Variation at 41.25 ~ 45.75 MHz	nsec	-	80	120
Absolute Delay at Fo	μsec	-	4.15	-
Temperature Coefficient	ppm/°C	-	-94	-
Bandwidth at -1.0 dB	MHz	5.20	5.33	-
Bandwidth at -3.0 dB	MHz	-	5.54	-
Bandwidth at -40.0 dB	MHz	-	6.32	6.50
Ultimate Rejection	dB	50	55	-
Relative Attenuation:				
39.75MHz	dB	50	55	-
47.25MHz	dB	50	55	-

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



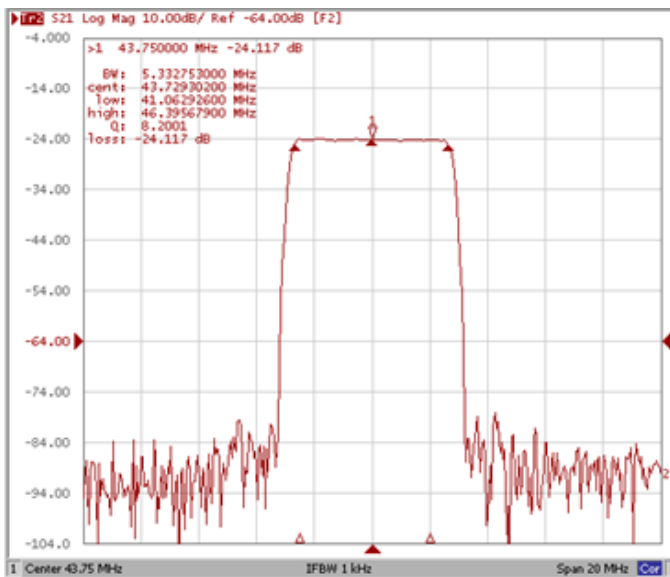
Testing Environment



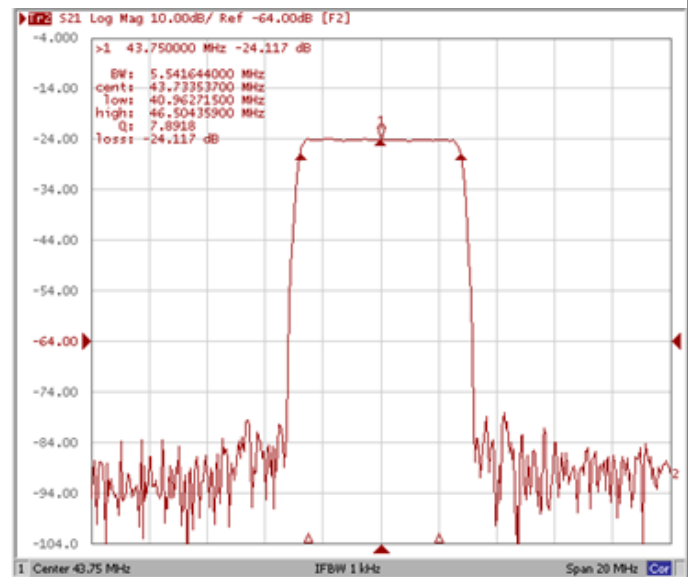
Frequency Characteristics

Frequency Response

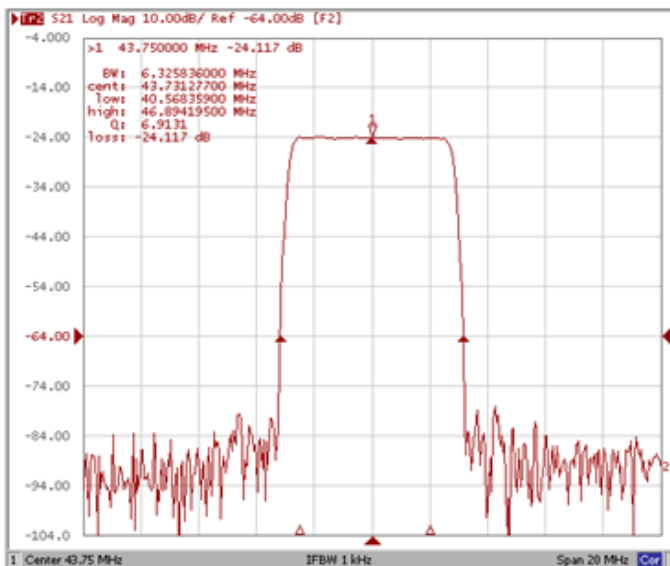
Bandwidth at -1.0 dB



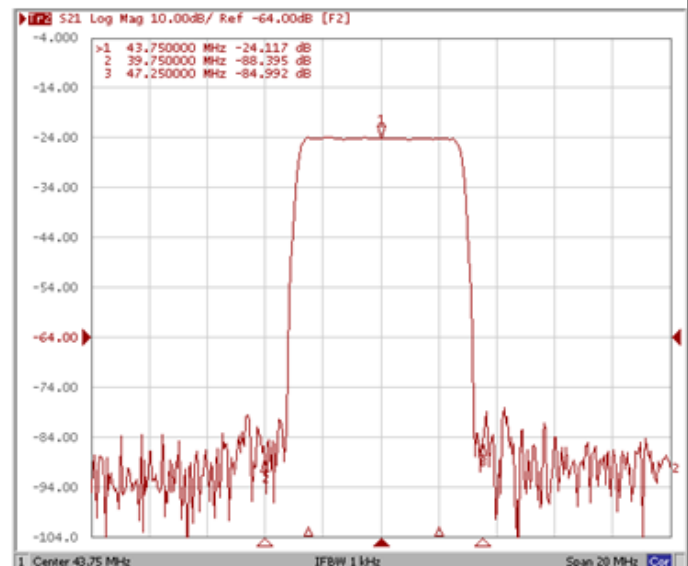
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



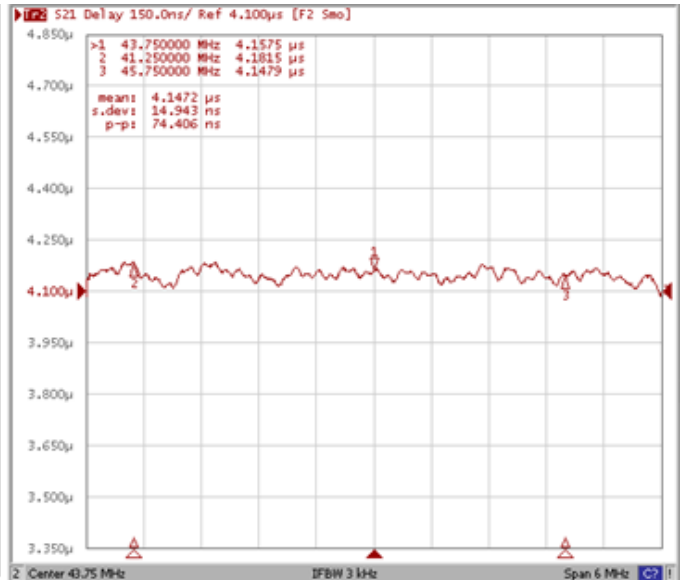
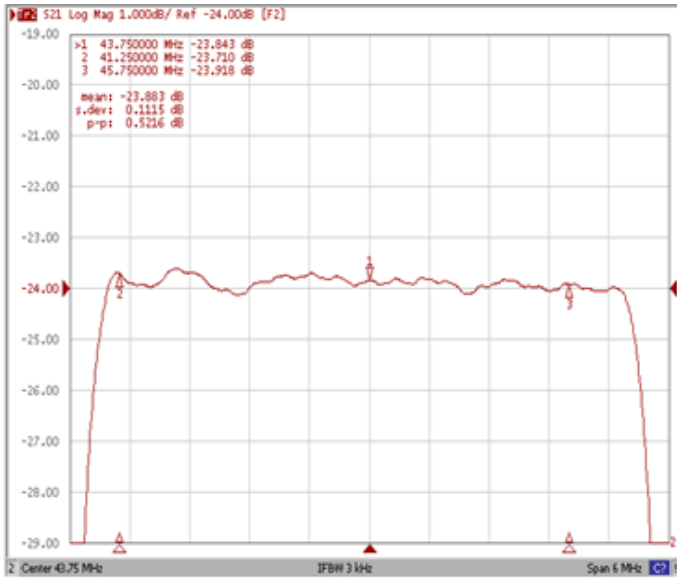
Attenuation 39.75 / 47.25MHz



Frequency Response

Ripple Variation at 41.25 ~ 45.75 MHz

Group Delay Variation at 41.25 ~ 45.75 MHz



Smith Chart

SWR

