❒ Electrical Characteristics

Maximum Ratings

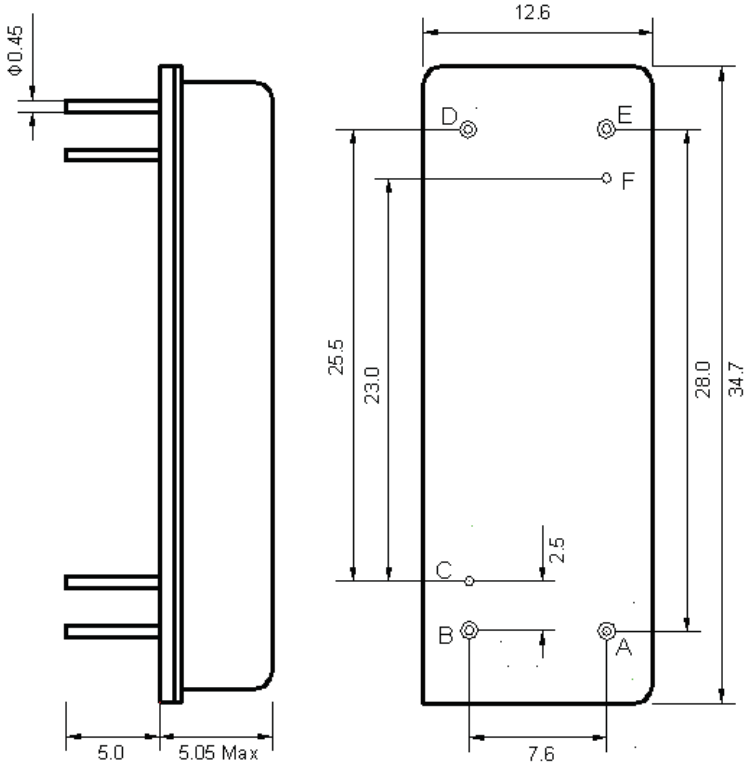
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type&size	F			
Length x Width	mm²	-	34.7 x 12.6	-
Height	mm	-	-	5.05

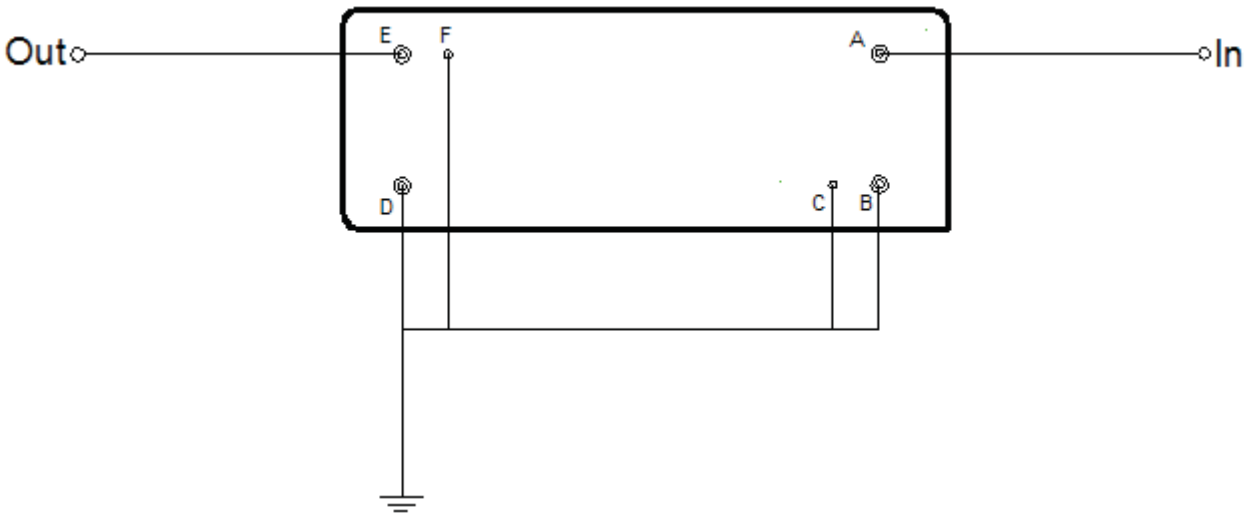
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	43.75	-
Insertion Loss at Fo	dB	-	21.3	23.0
Amplitude Ripple Variation at 41.25 ~ 45.75 MHz	dB_{p-p}	-	0.45	0.7
Group Delay Variation at 41.25 ~ 45.75 MHz	nsec	-	70	150
Absolute Delay at Fo	µsec	-	3.51	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at –1.0 dB	MHz	5.30	5.48	-
Bandwidth at –3.0 dB	MHz	-	5.70	-
Bandwidth at –40.0 dB	MHz	-	6.55	6.80
Ultimate Rejection	dB	50	55	-
Relative Attenuation				
39.75MHz	dB	50	60	-
47.25MHz	dB	50	60	-

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



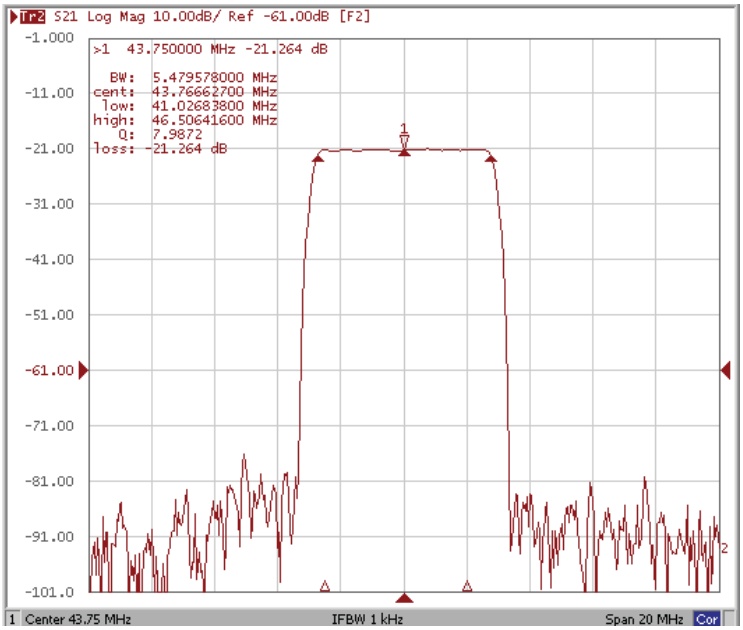


A –In
E – Out
B, C, D, F – Ground

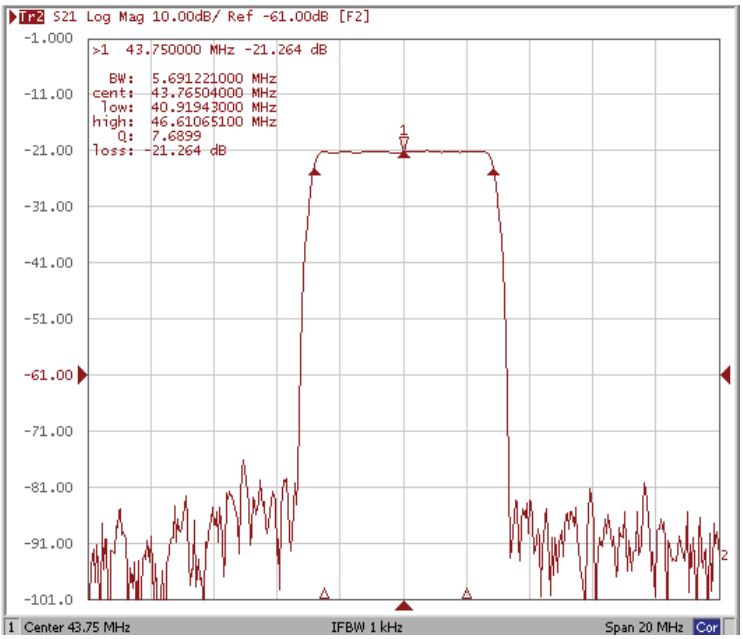
❒ Frequency Characteristics

Frequency Response

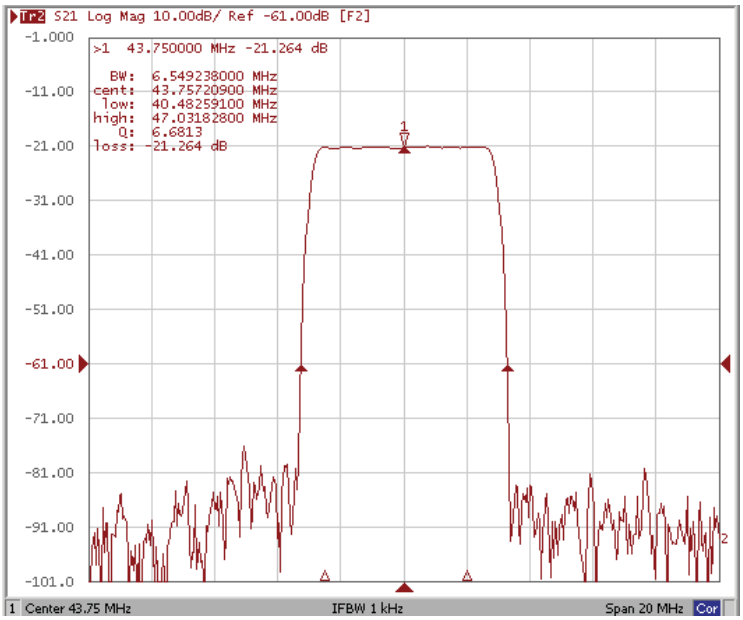
Bandwidth at –1.0 dB



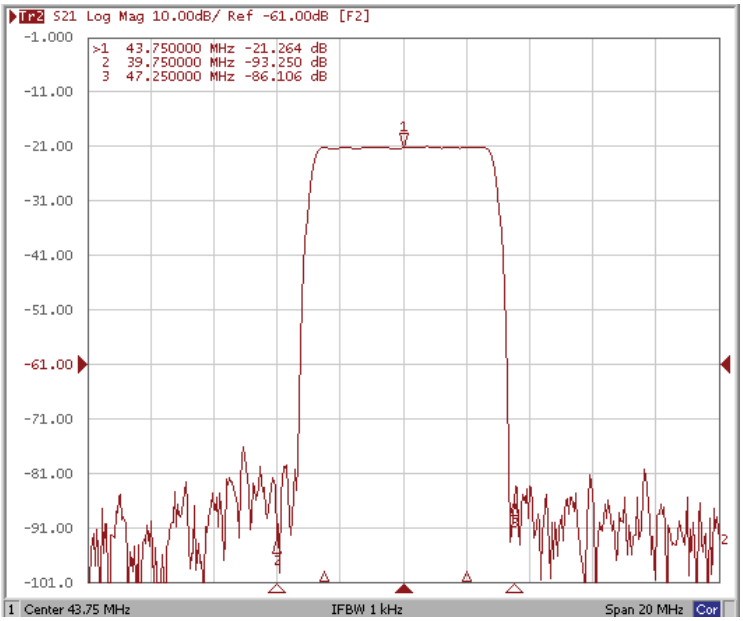
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB



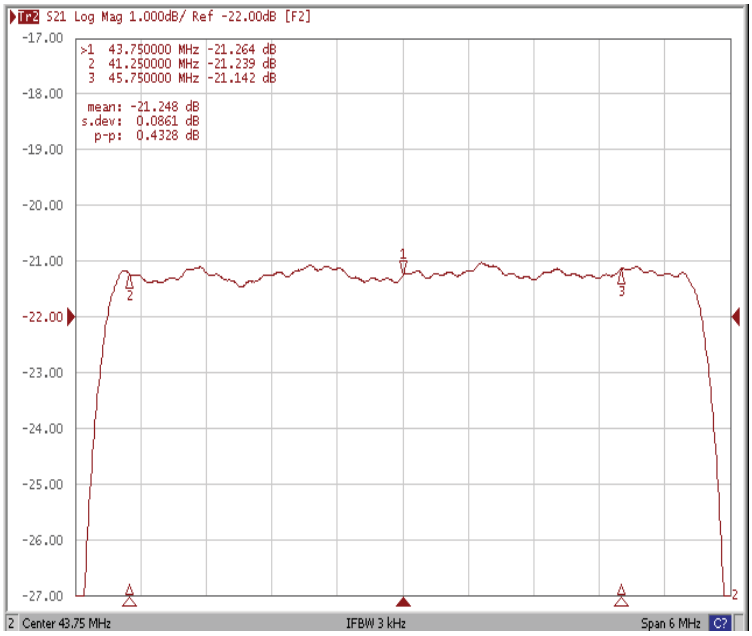
Attenuation 39.75 / 47.25MHz



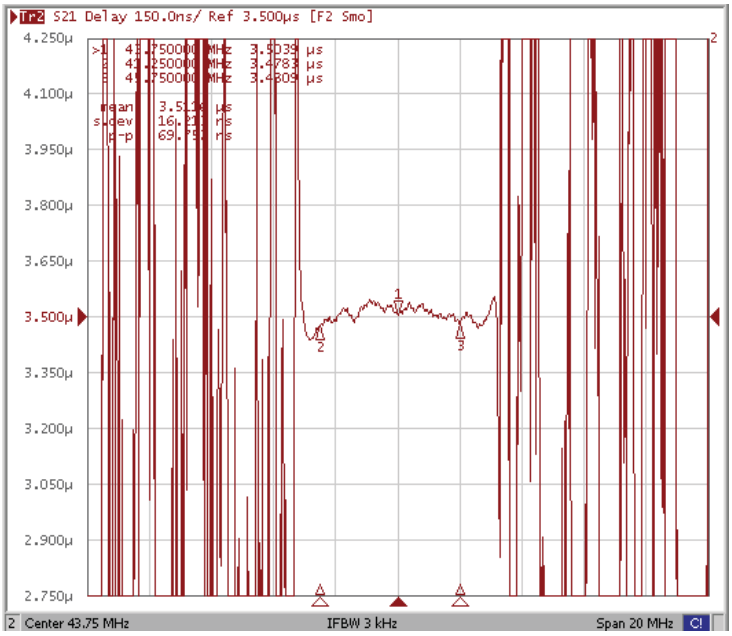
❒ Frequency Characteristics

Frequency Response

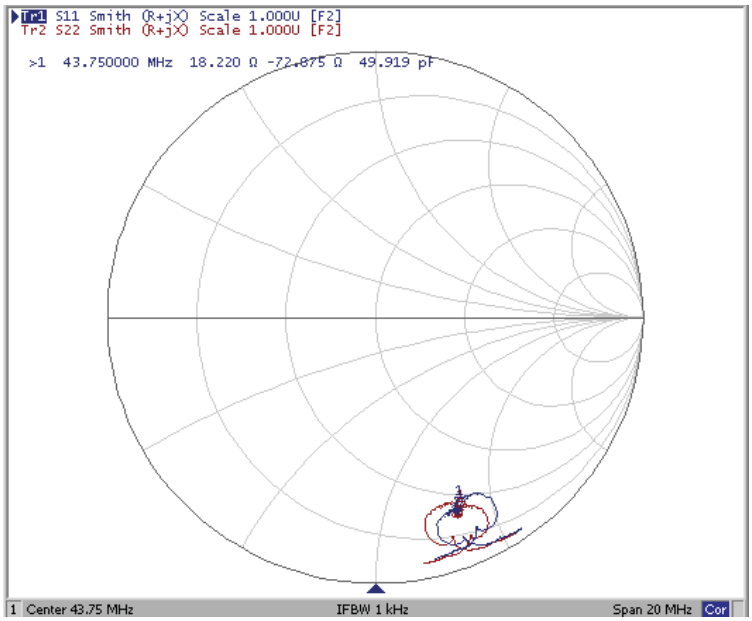
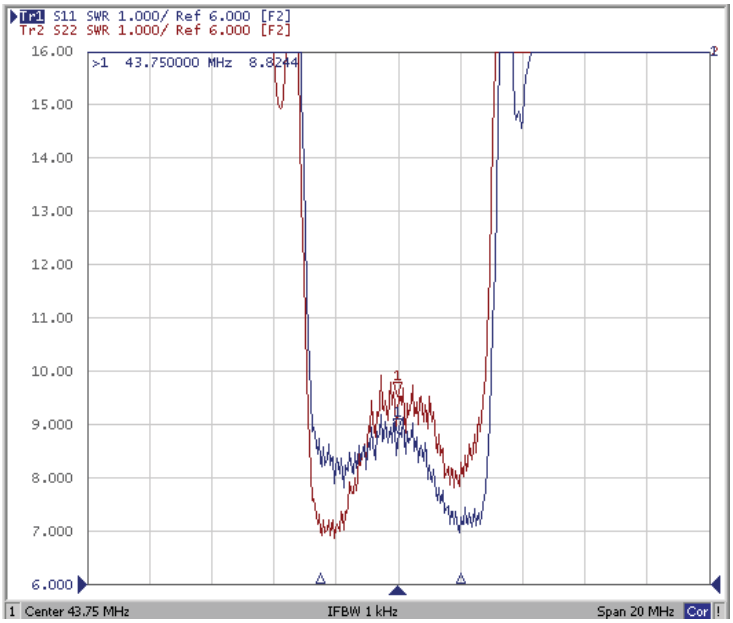
Ripple Variation at 41.25 ~ 45.75 MHz



Group Delay Variation at 41.25 ~ 45.75MHz



Smith Chart



SWR