

Electrical Characteristics

Maximum Ratings

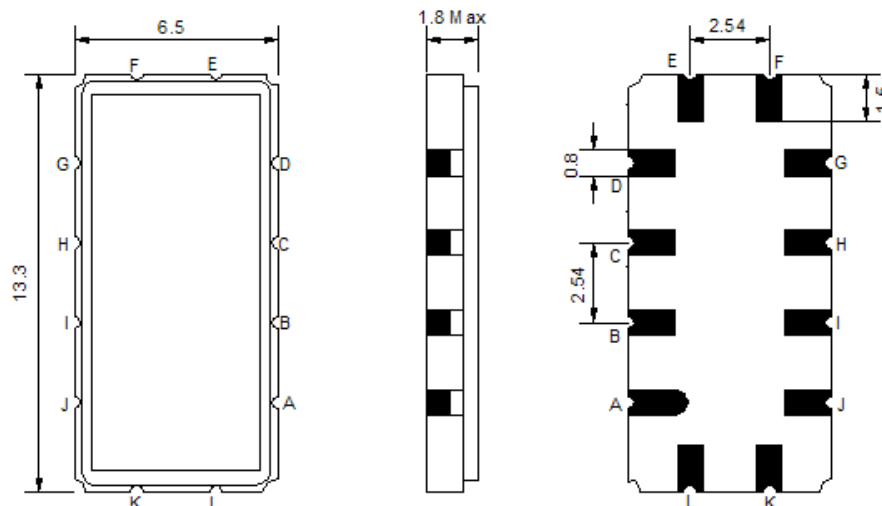
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	V			
Length x Width	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	16.3	18.0
Group Delay Variation (Fo±12.5MHz)	nsec	-	18	35
Absolute Delay at Fo	usec	-	0.82	-
Temperature Coefficient	ppm/°C	-	-86	-
Passband Ripple (Fo±12.5MHz)	dB	-	0.40	1.00
Bandwidth at -1dB	MHz	26.0	26.7	-
Bandwidth at -3dB	MHz	-	27.9	-
Bandwidth at -40dB	MHz	-	33.2	35.0
Relative Attenuation				
Lower Sidelobe	dB	-	48	-
Upper Sidelobe	dB	-	45	-

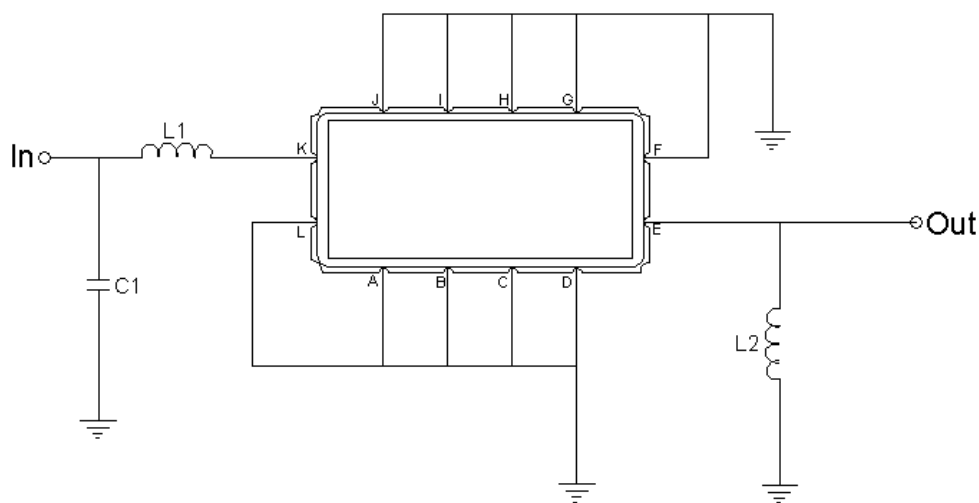
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



Pin Description	
A, B, C, D, F, G, H, I, J, L	Ground
K	Input
E	Output

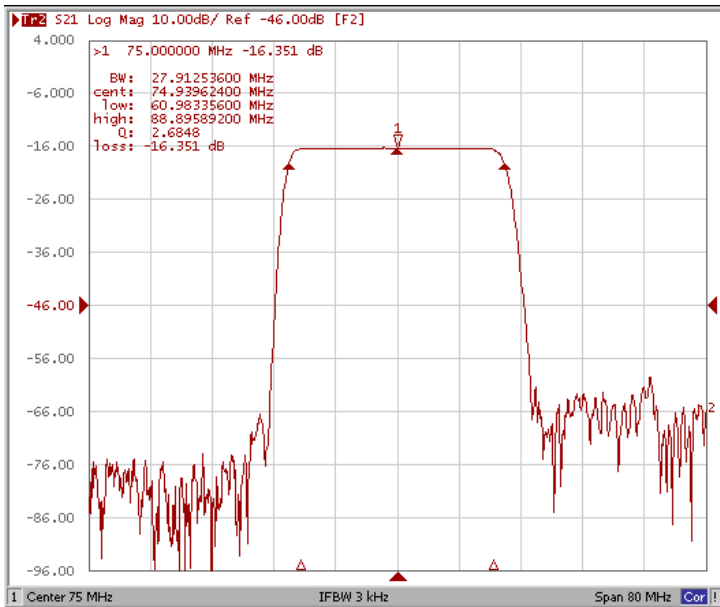
Testing Environment



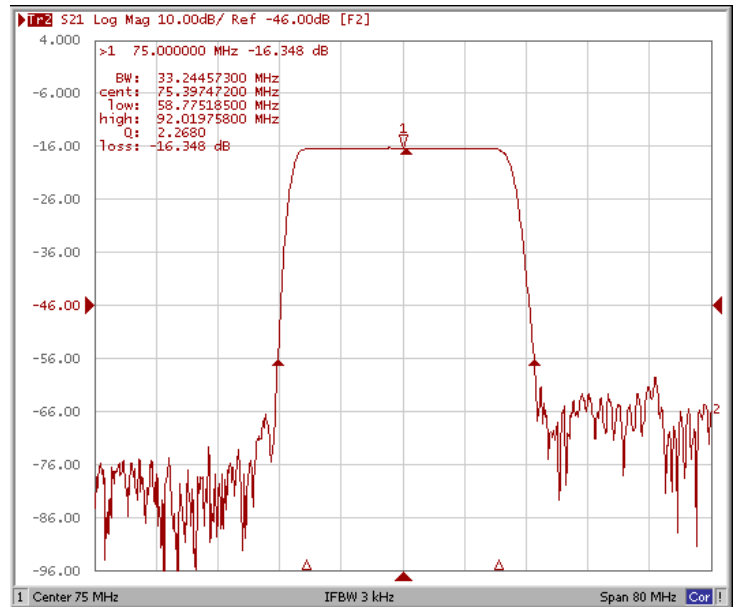
Test Fixture & Values	
Input	L1=120 nH, C1=12pF
Output	L2=120 nH
Source/Load Impedance	50 Ω

Frequency Response

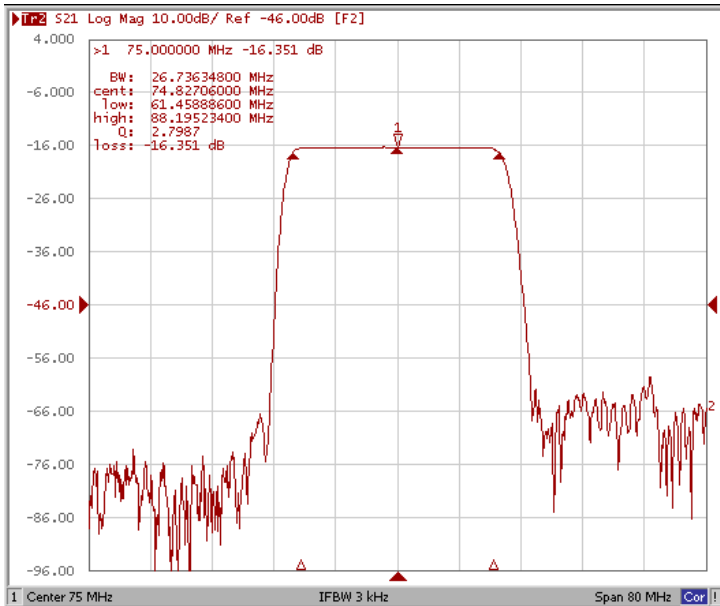
Bandwidth at -3.0 dB



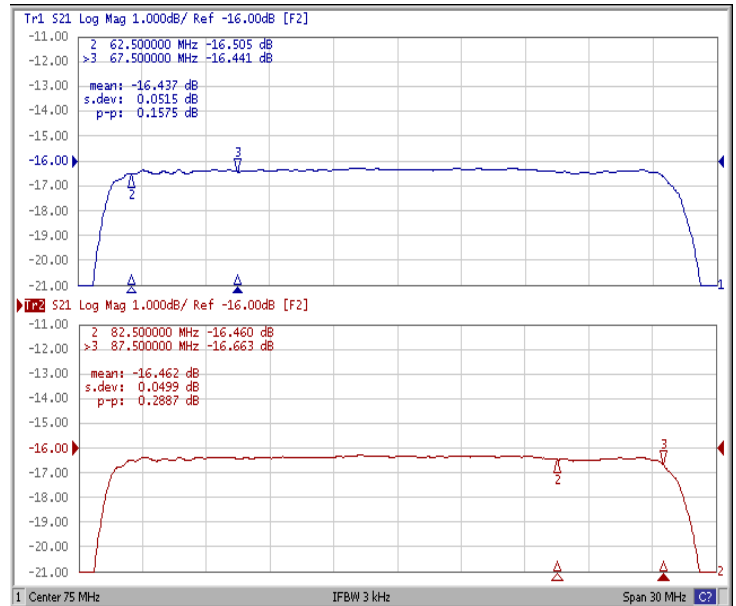
Bandwidth at -40.0 dB



Bandwidth at -1.0 Db

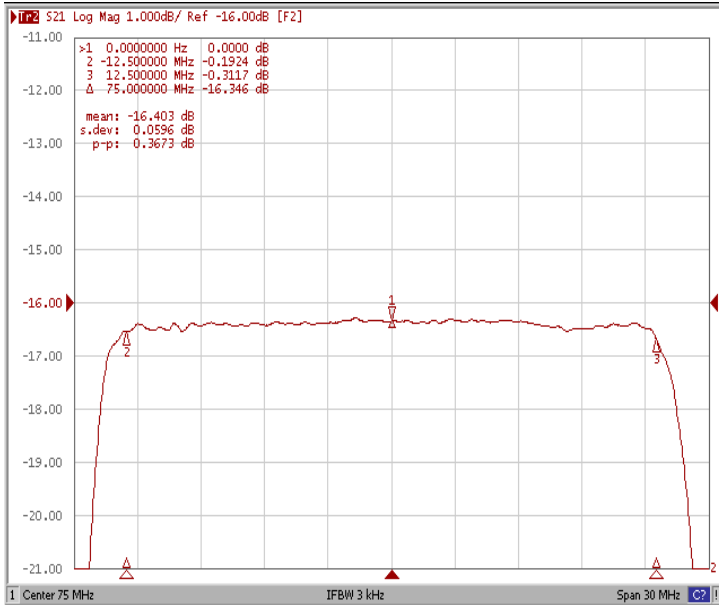


Ripple Variation Fs +5.0MHz / FI -5.0MHz

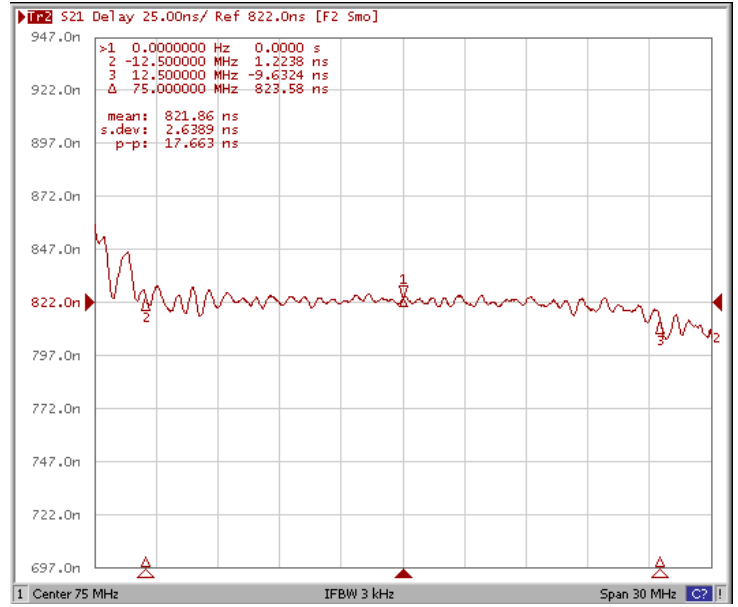


Frequency Response

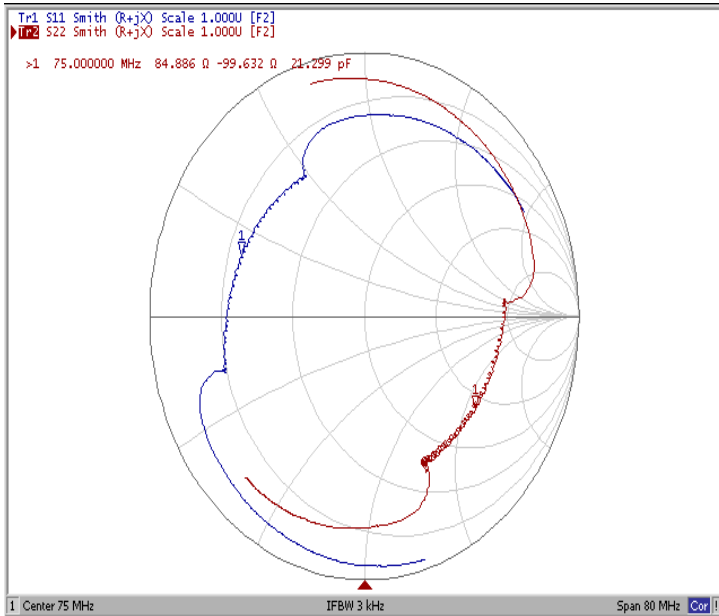
Ripple Variation $F_o \pm 12.5\text{MHz}$



Group Delay Variation $F_o \pm 12.5\text{MHz}$



Smith Chart



VSWR

