



БУТИС

Научно-производственное
предприятие

Радиочастотные фильтры
и ПАВ фильтры

Тел: (495)411-96-08

Факс: (495)411-96-09

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Electrical Characteristics

Maximum Ratings

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) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	D			
Length x Width	mm ²	-	20.0 x 12.6	-
Height	mm	-	-	5.05

Electrical Specification

***Operating Temperature : +25°C**

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	70.00	-
Insertion Loss at Fo	dB	-	28.50	30.00
Amplitude Ripple (Fo ±4.50 MHz)	dB _{p-p}	-	0.8	1.2
Group Delay Variation (Fo ±4.50 MHz)	nsec	-	60	200
Absolute Delay at Fo	µsec	-	2.40	-
Bandwidth at -1.0 dB	MHz	9.20	9.30	-
Bandwidth at -3.0 dB	MHz	-	9.50	-
Bandwidth at -35.0 dB	MHz	-	10.30	10.40
Relative Attenuation: (Out of Band Gain)				
Fc ± 5.2MHz	dB	30	40	-
Fc ± 6.0MHz	dB	40	45	-
Fc ± 10.0MHz	dB	40	45	-
Fc ± 15.0MHz	dB	40	45	-
Temperature coefficient	ppm/°C	-	-18	-

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.



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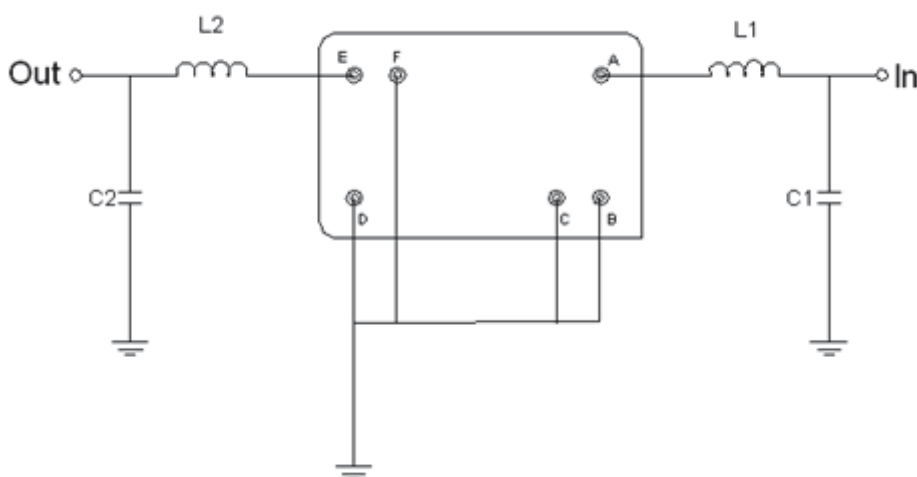
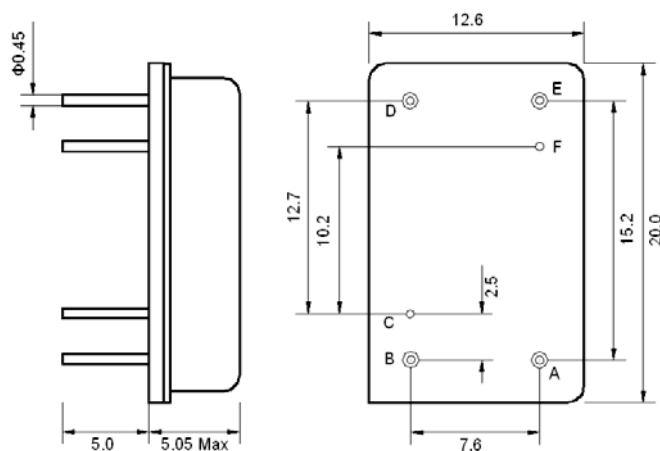
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Package Dimensions



$L1 = 270 \text{ nH}$; $L2 = 120 \text{ nH}$; $C1 = 30 \text{ pF}$; $C2 = 33 \text{ pF}$

A – In E – Out

B, C, D, F –

Ground



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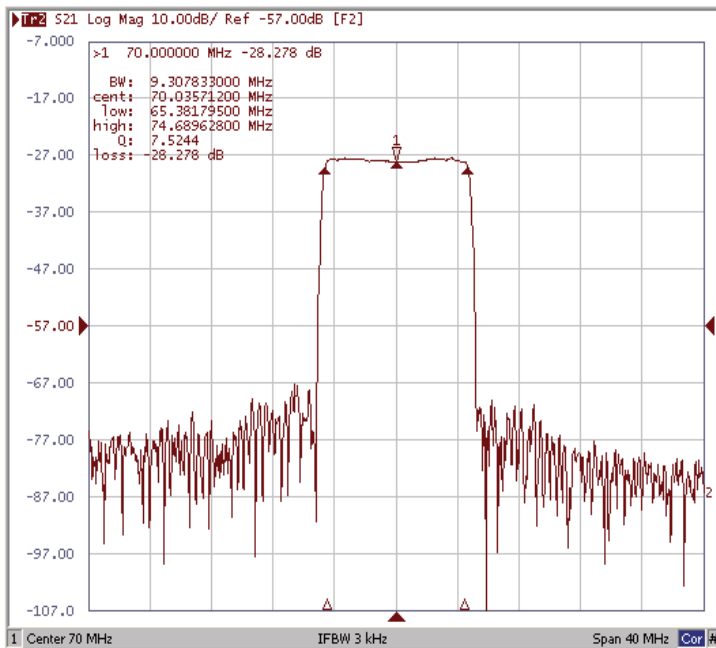
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□ Frequency Characteristics

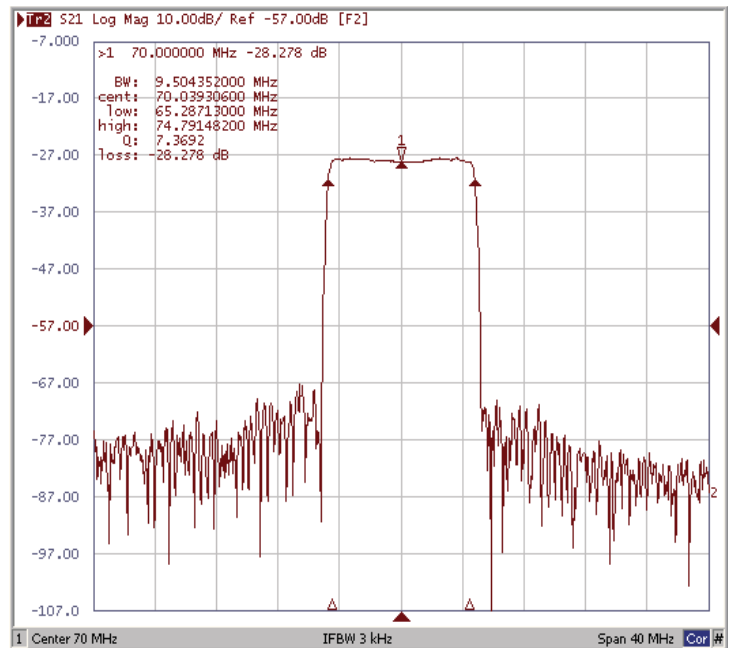
Frequency Response

***Operating Temperature : +25°C**

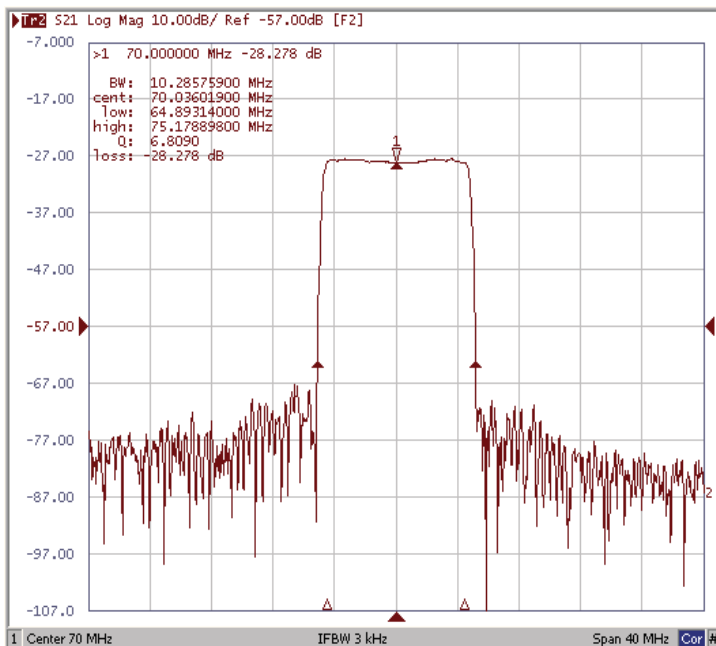
Bandwidth at -1.0 dB



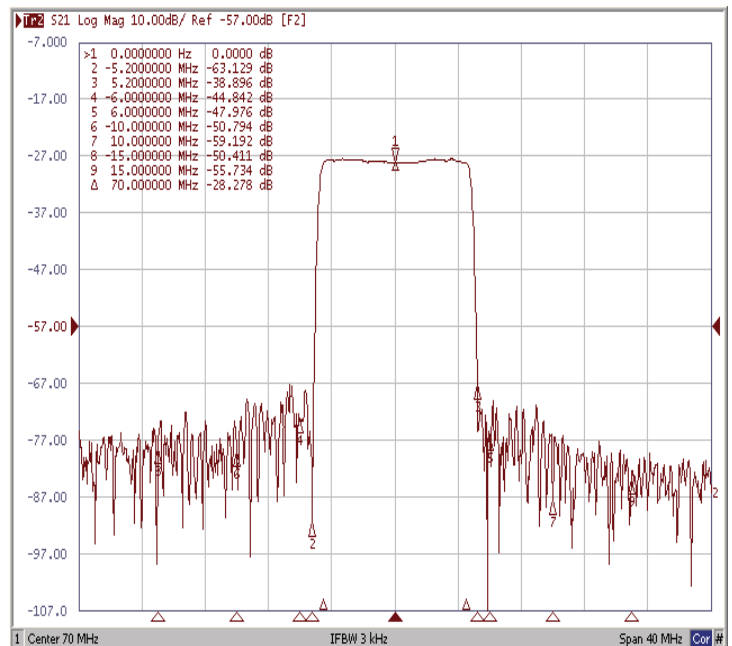
Bandwidth at -3.0 dB



Bandwidth at -35.0 dB



Out of Band Gain





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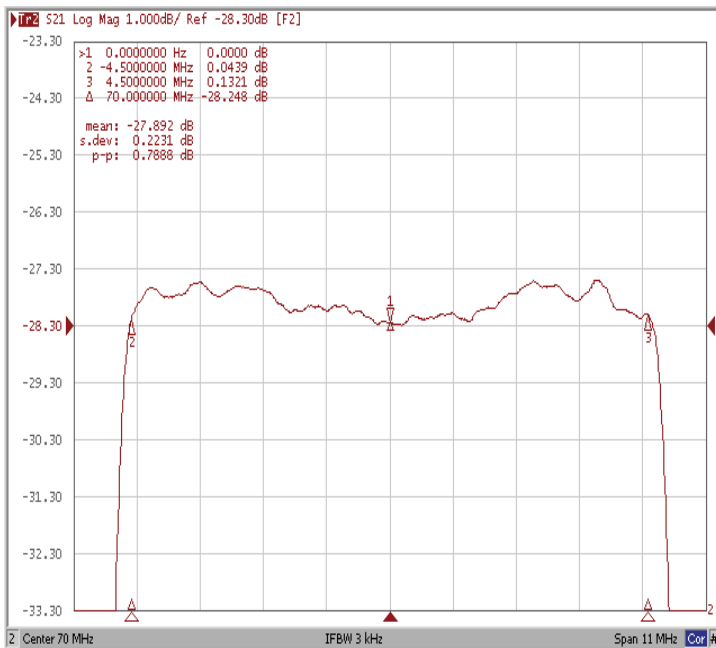
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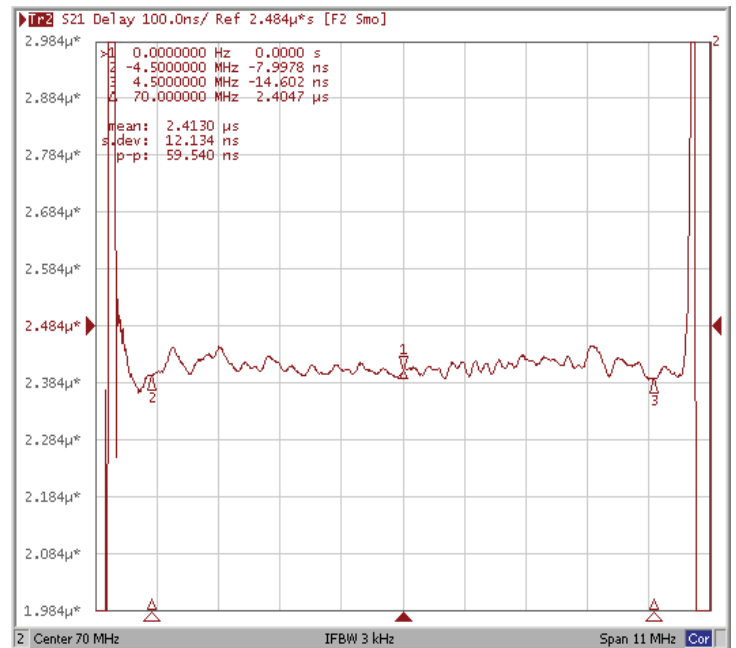
Frequency Characteristics

Frequency Response

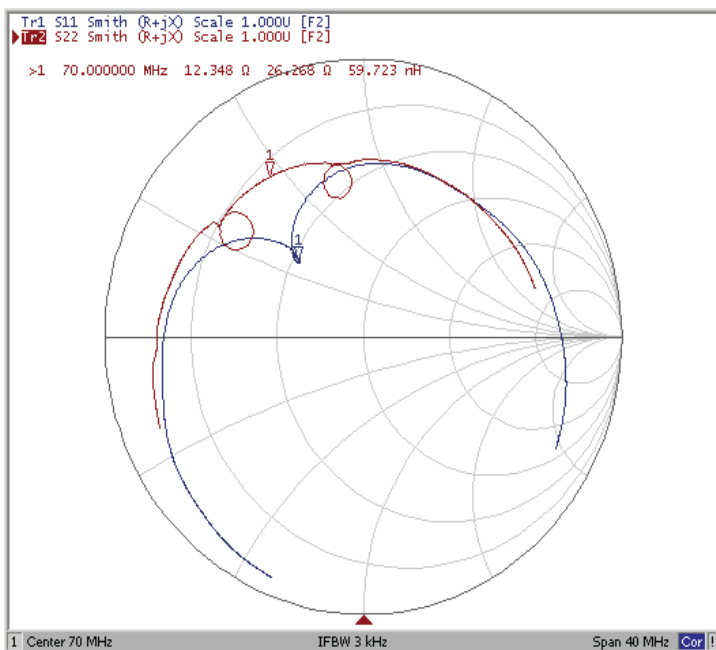
Ripple Variation $F_0 \pm 4.5\text{MHz}$



Group Delay Variation $F_0 \pm 4.5\text{MHz}$



Smith Chart



VSWR

