



БУТИС

Научно-производственное
предприятие

Радиочастотные фильтры
и ПАВ фильтры

Тел: (495)411-96-08

Факс: (495)411-96-09

121357, г. Москва
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E-mail: butis.m@ru.net

Web: www.butis-m.ru

□ Electrical Characteristics

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-25	-	70
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	-	70.00	-
Insertion Loss at Fo	dB	-	13.80	15.00
Group Delay Variation (Fo±7.50MHz)	ns	-	25	45
Absolute Delay Time at Fo	us	-	1.22	-
Amplitude Ripple (Fo±7.50MHz)	dB	-	0.35	0.90
Bandwidth at -1dB	MHz	16.40	16.60	-
Bandwidth at -10dB	MHz	-	18.20	18.35
Bandwidth at -20dB	MHz	-	19.06	19.20
Bandwidth at -40dB	MHz	-	20.43	-
Ultimate Rejection	dB	40	46	-
Temperature Coefficient	ppm/°C	-	-86	-

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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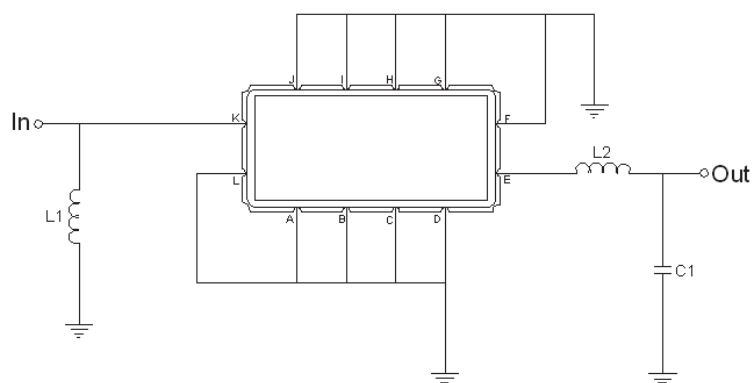
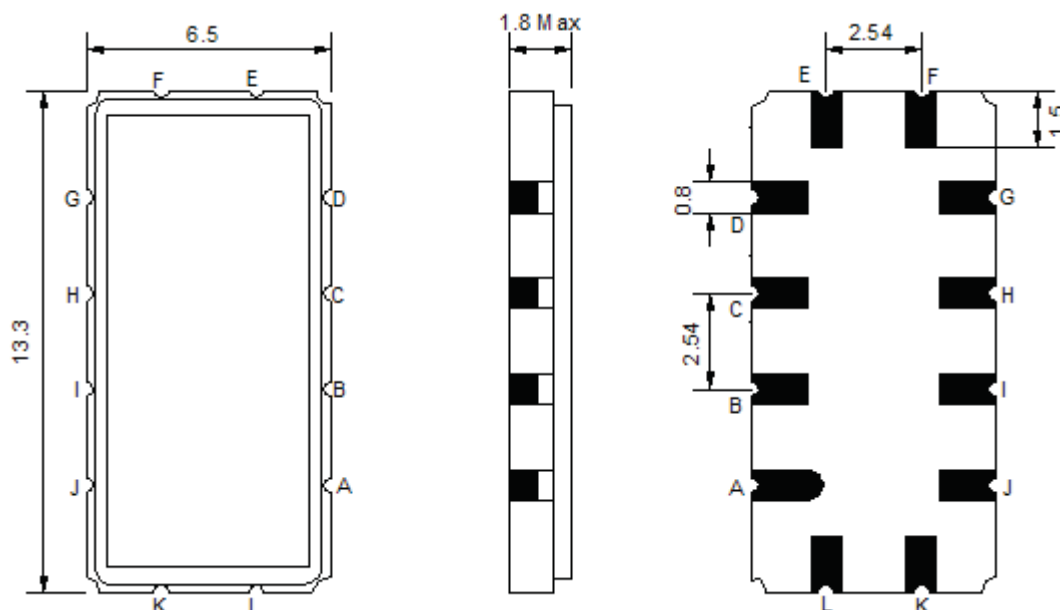
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Package Dimensions



$L1 = 100 \text{ nH}$; $L2 = 120 \text{ nH}$; $C1 = 27 \text{ pF}$

K – In E – Out

A, B, C, D, F, G, H, I, J, L –
Ground



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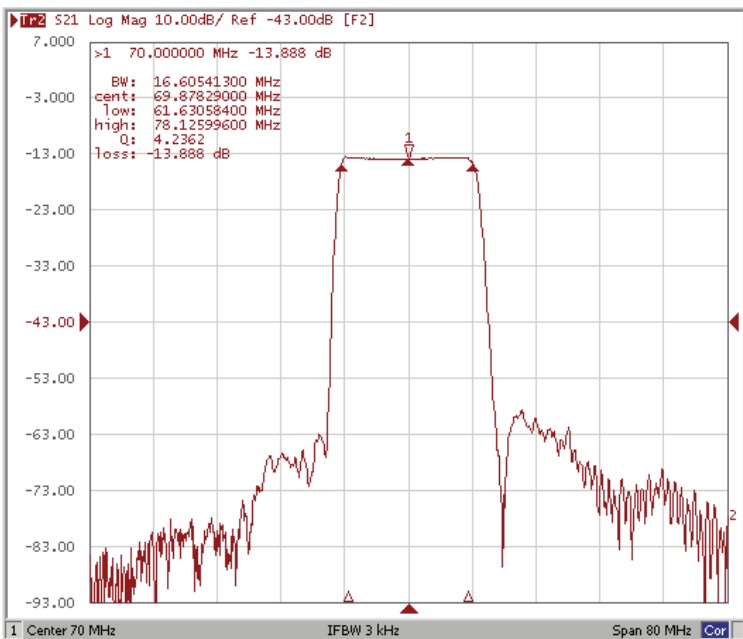
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□ Frequency Characteristics

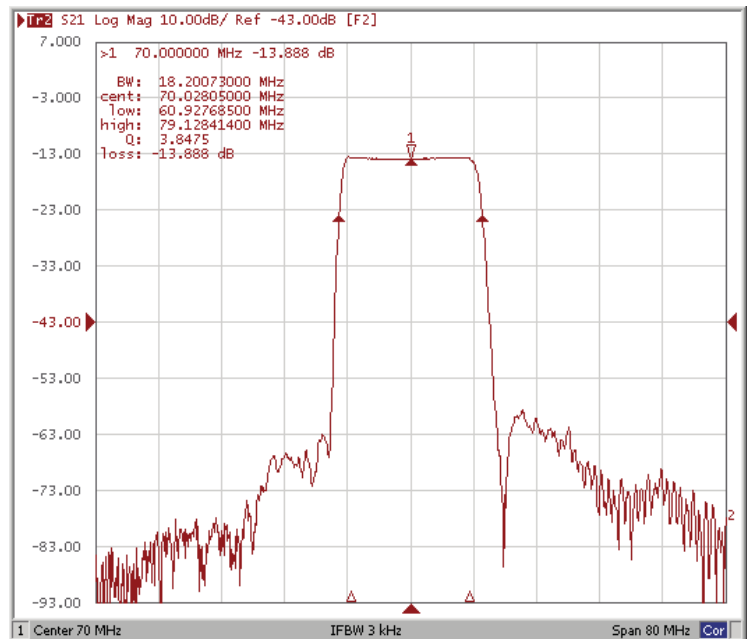
Frequency Response

Room Temperature : +25 °C

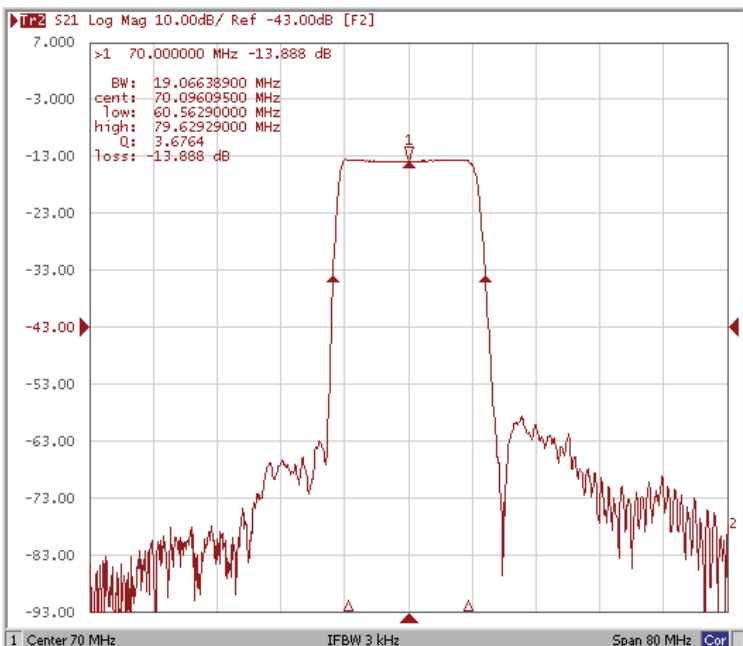
Bandwidth at -1.0 dB



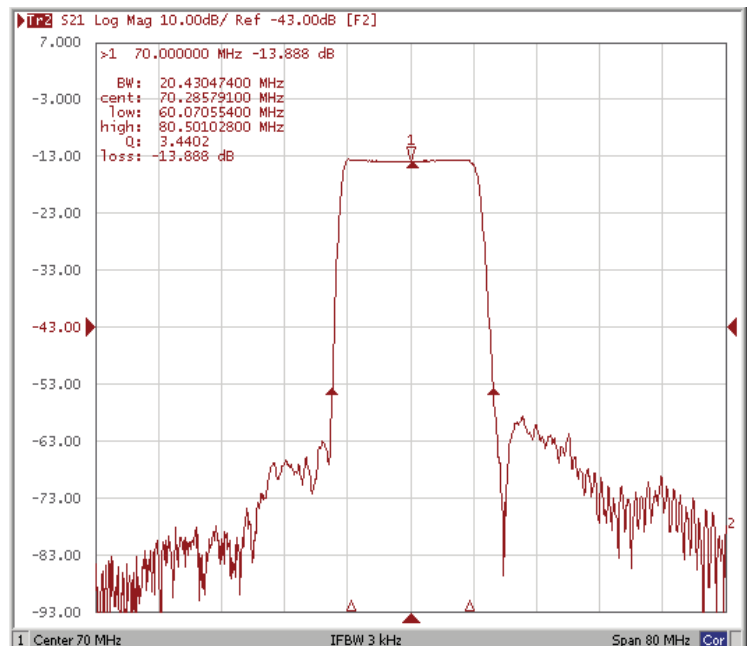
Bandwidth at -10.0 dB



Bandwidth at -20.0 dB



Bandwidth at -40.0 dB





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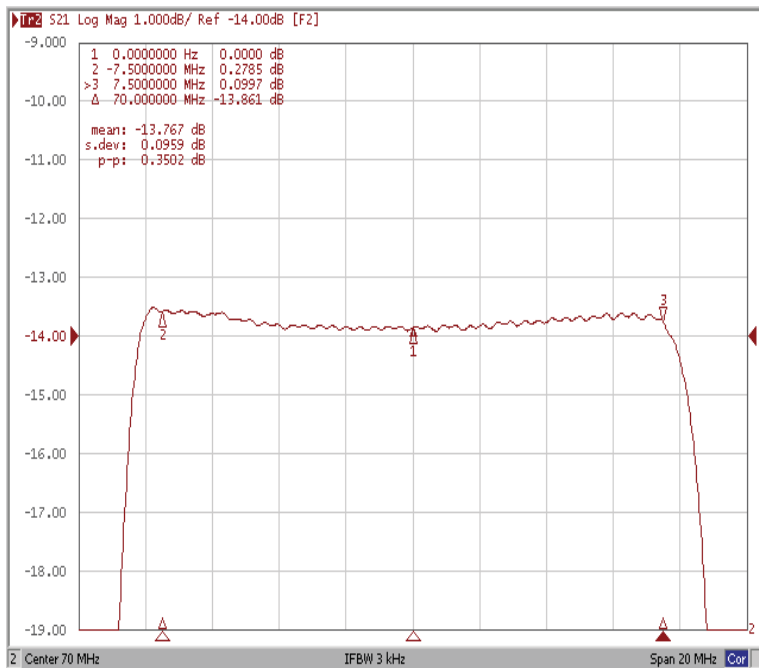
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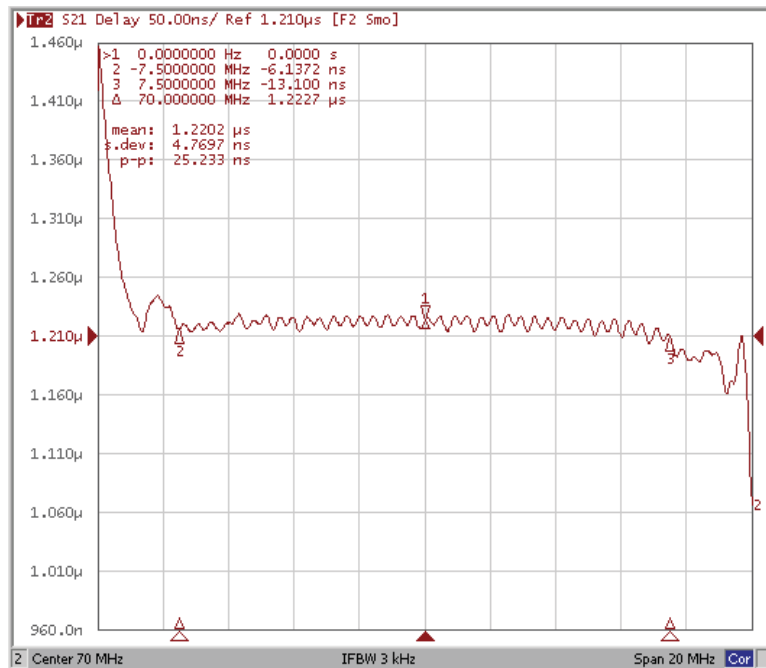
□ Frequency Characteristics

Frequency Response

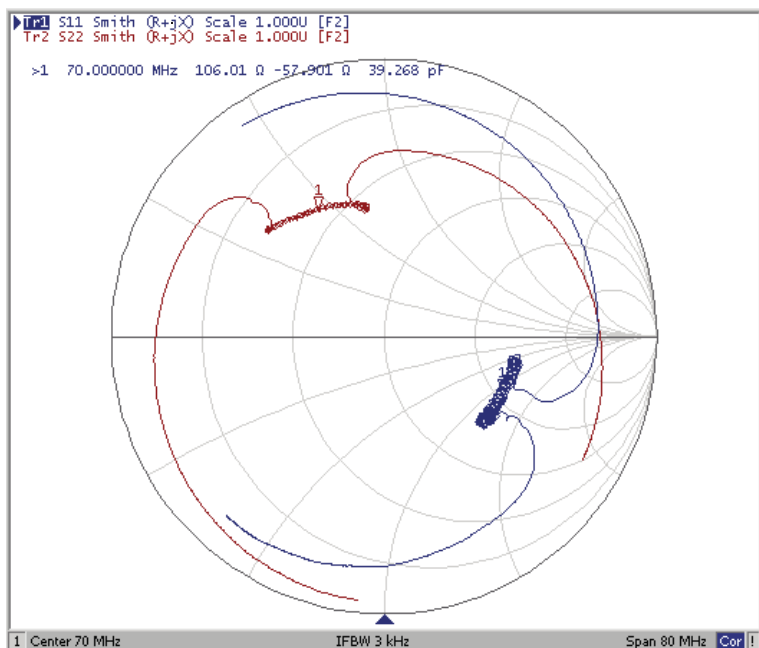
Ripple Variation $F_0 \pm 7.50\text{MHz}$



Group Delay Variation $F_0 \pm 7.50\text{MHz}$



Smith Chart



SWR

