



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
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	S90			
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	-	75.00	-
Insertion Loss at Fo	dB	-	12.2	15.0
Group Delay Variation at Fo ± 7.25 MHz	nsec	-	21	60
Absolute Delay at Fo	usec	-	0.69	-
Passband Ripple Variation at Fo ± 7.25 MHz	dB _{p-p}	-	0.3	0.9
Bandwidth at -1dB	MHz	17.40	17.65	-
Bandwidth at -20dB	MHz	-	21.56	-
Bandwidth at -40dB	MHz	-	23.18	23.50
Ultimate Rejection	dB	40	45	-
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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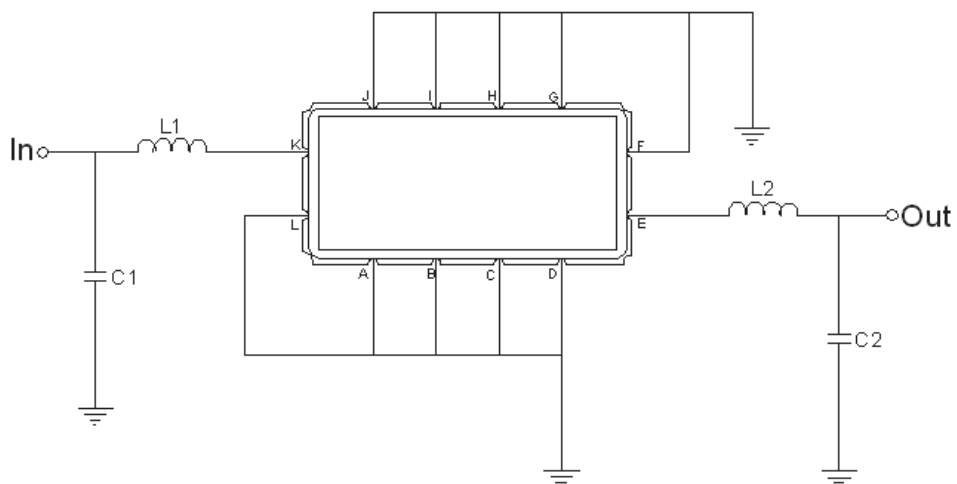
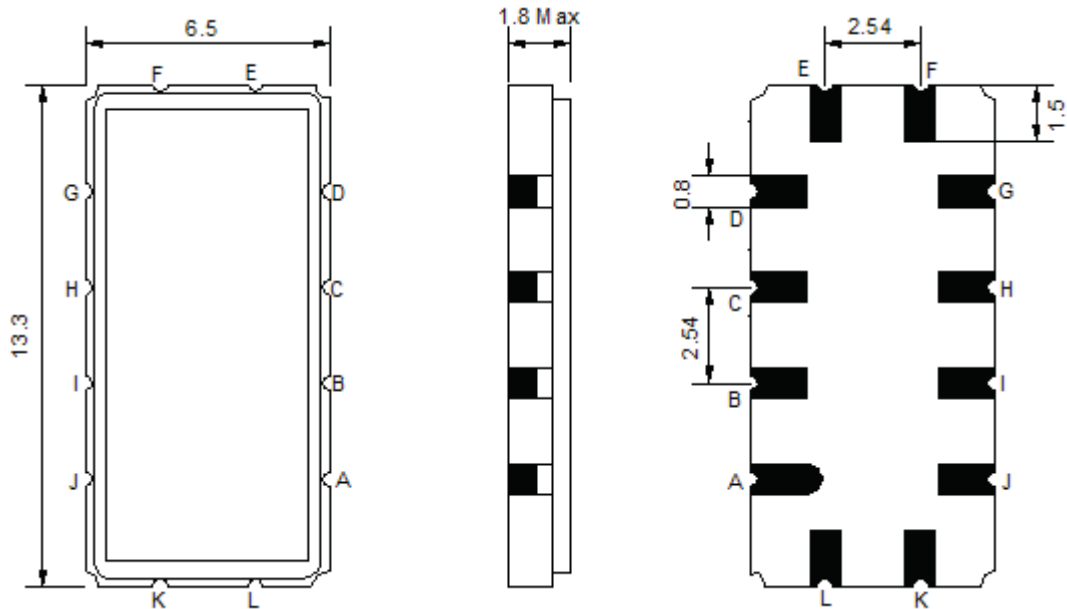
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Package Dimensions

2.



$L1 = 150 \text{ nH}$; $L2 = 150 \text{ nH}$; $C1 = 30 \text{ pF}$; $C2 = 15 \text{ pF}$
K – In E – Out

A, B, C, D, F, G, H, I, J, L –



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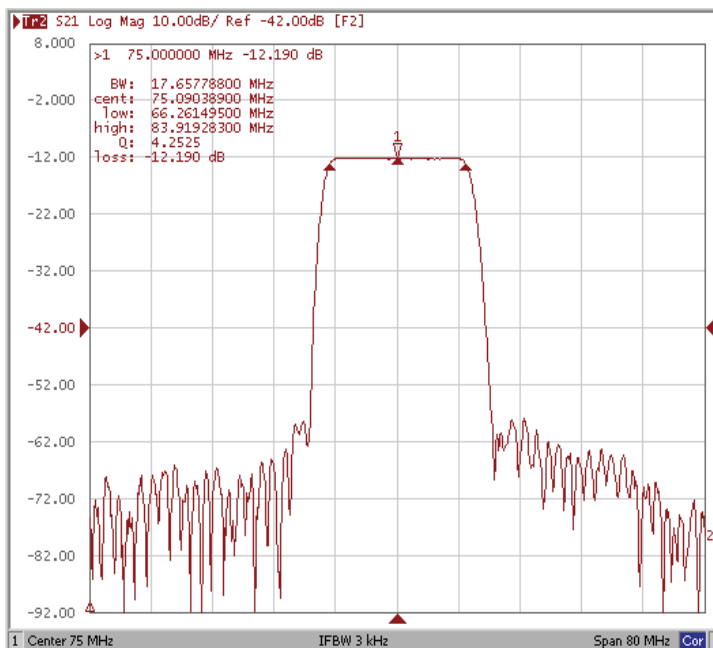
Web: www.butis-m.ru

Frequency Characteristics

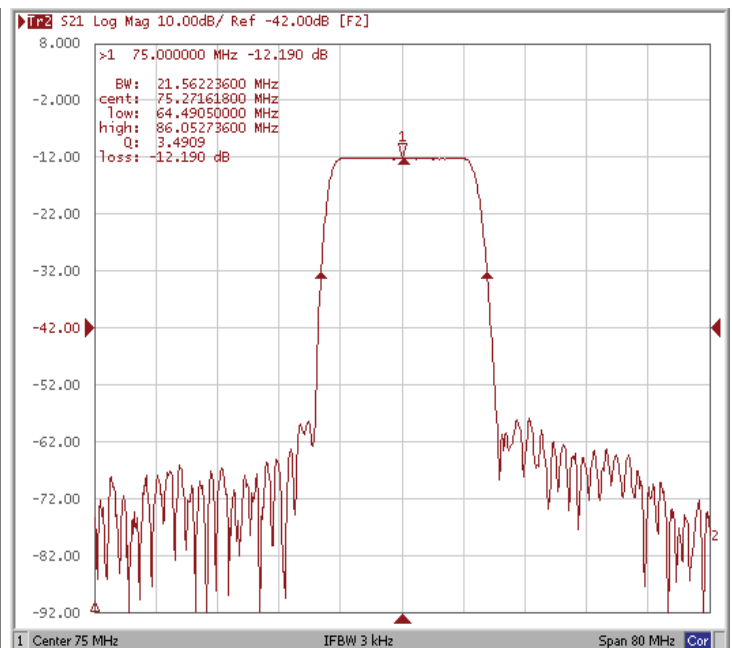
Frequency Response

Operating Temperature : +25 °C

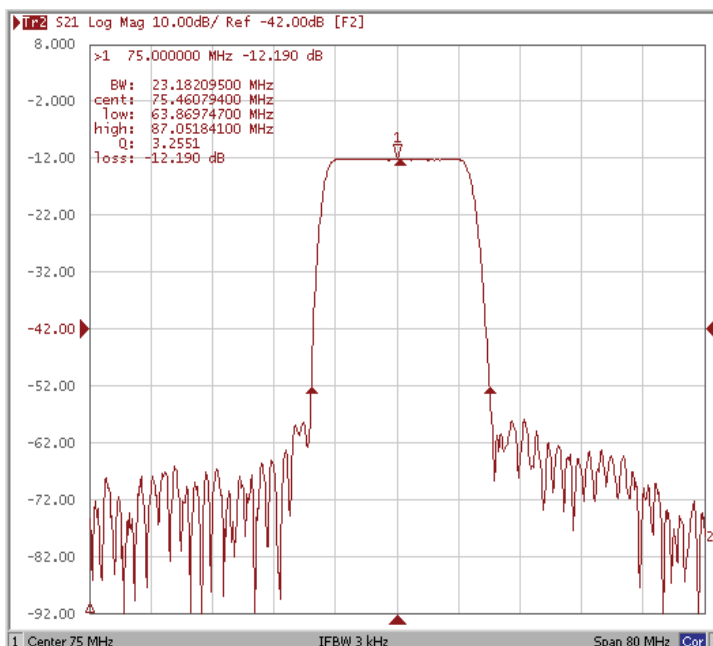
Bandwidth at -1.0 dB



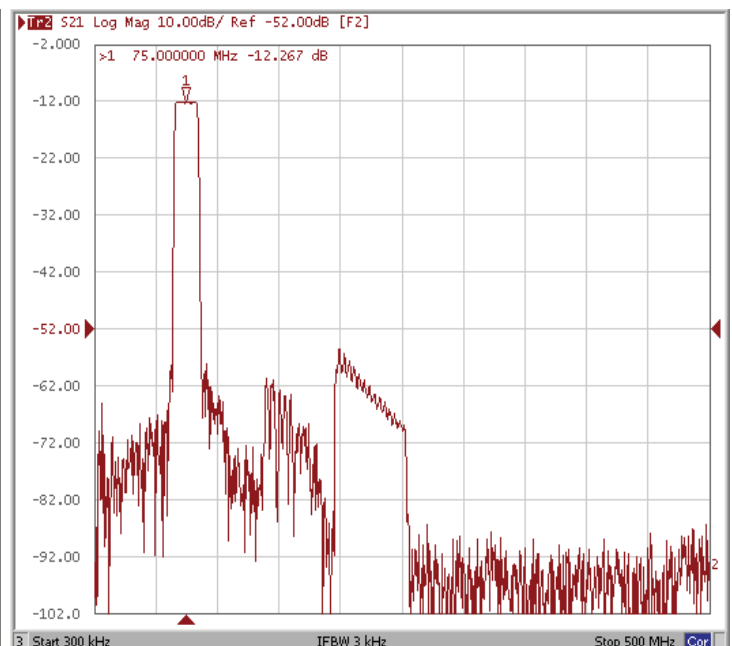
Bandwidth at -20.0 dB



Bandwidth at -40 dB



Wide-Band





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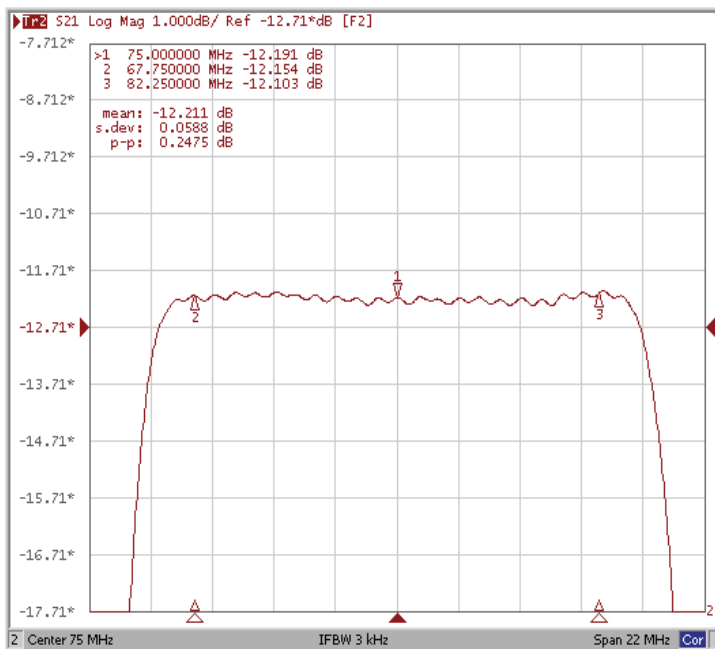
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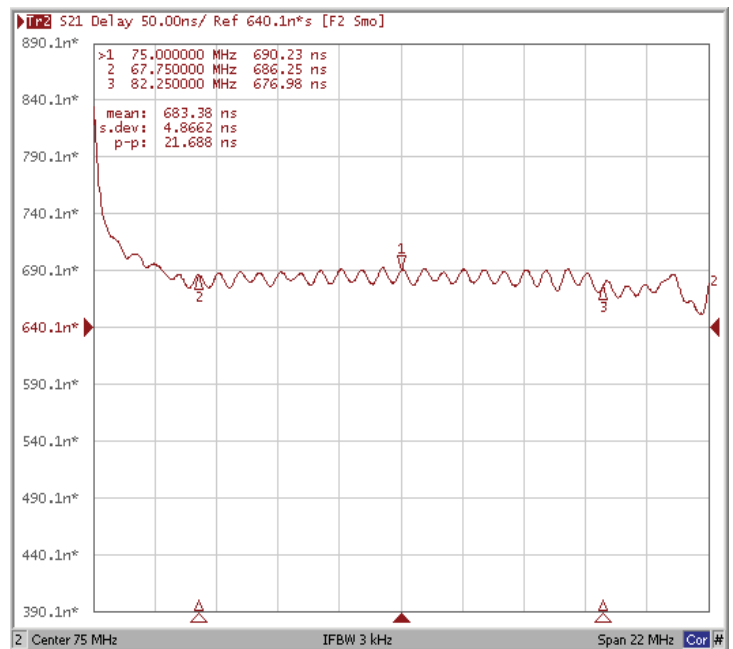
Frequency Characteristics

Frequency Response

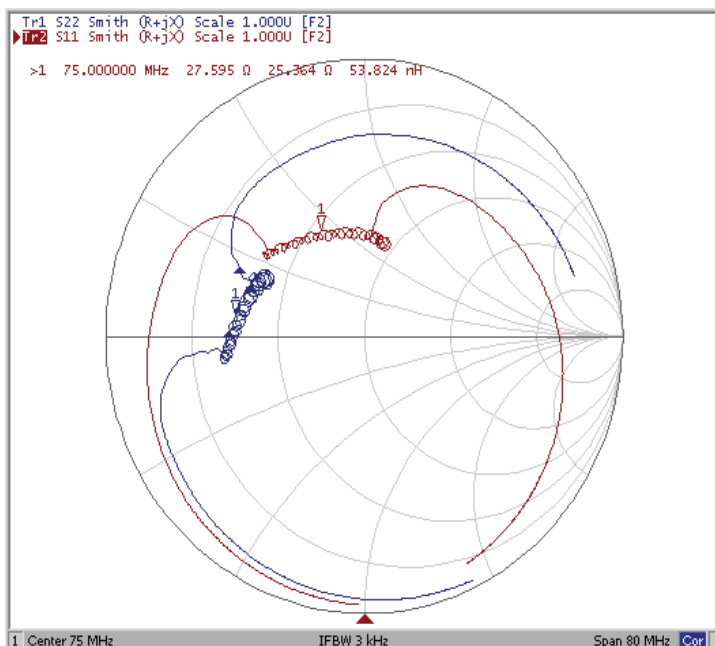
Ripple Variation $Fo \pm 7.25\text{MHz}$



Group Delay Variation $Fo \pm 7.25\text{MHz}$



Smith Chart



VSWR

