



## □ Electrical Characteristics

### Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	0	-	60
Storage Temperature Range	°C	-20	-	70
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	83.0625	-
Insertion Loss at Fo	dB	-	21.6	23.5
Group Delay Variation (Fo±0.9375MHz)	ns	-	50	100
Absolute Delay	us	-	1.81	-
Passband Ripple (Fo±0.9375MHz)	dB	-	0.2	1.00
Bandwidth at -1dB	MHz	1.875	2.79	-
Bandwidth at -30dB	MHz	-	3.78	-
Bandwidth at -40dB	MHz	-	3.92	4.62
Ultimate Rejection	dB	-	48	-
Relative Attenuation Fo±2.1625MHz	dB	30	50	

**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.



# БУТИС

Научно-производственное  
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Радиочастотные фильтры  
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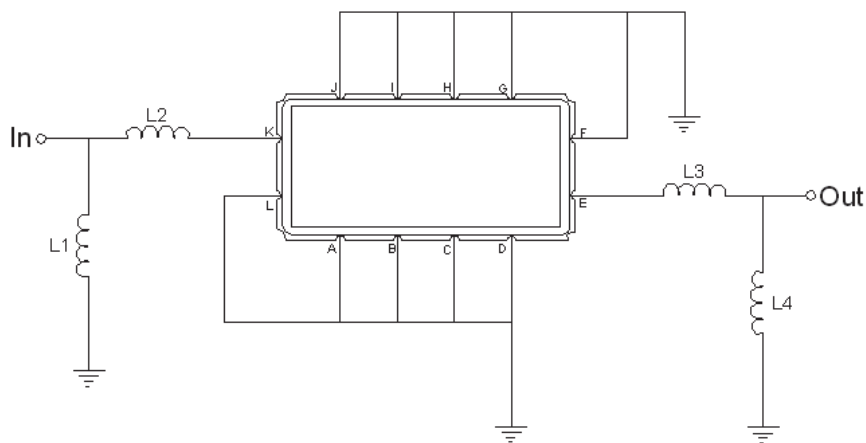
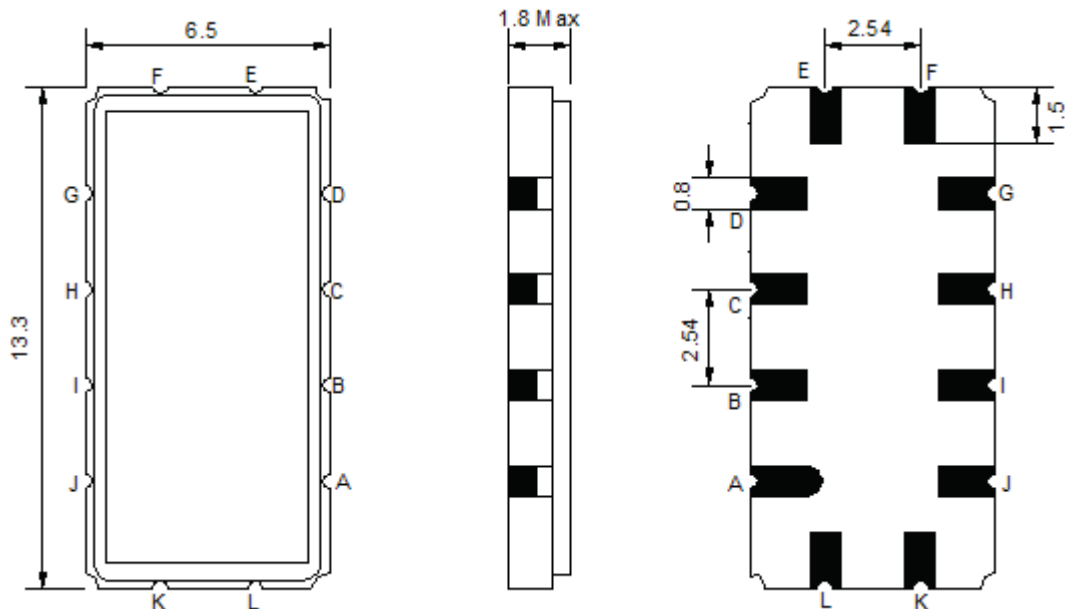
Факс: (495)411-96-09

121357, г. Москва  
ул. Вере́йская д.29

E-mail: [butis.m@ru.net](mailto:butis.m@ru.net)

Web: [www.butis-m.ru](http://www.butis-m.ru)

## Package Dimensions



$L1 = 68 \text{ nH}$ ;  $L2 = 220 \text{ nH}$ ;  $L3 = 180 \text{ nH}$ ;  $L4 = 68 \text{ nH}$ ;

K – In E – Out

A, B, C, D, F, G, H, I, J, L – Ground



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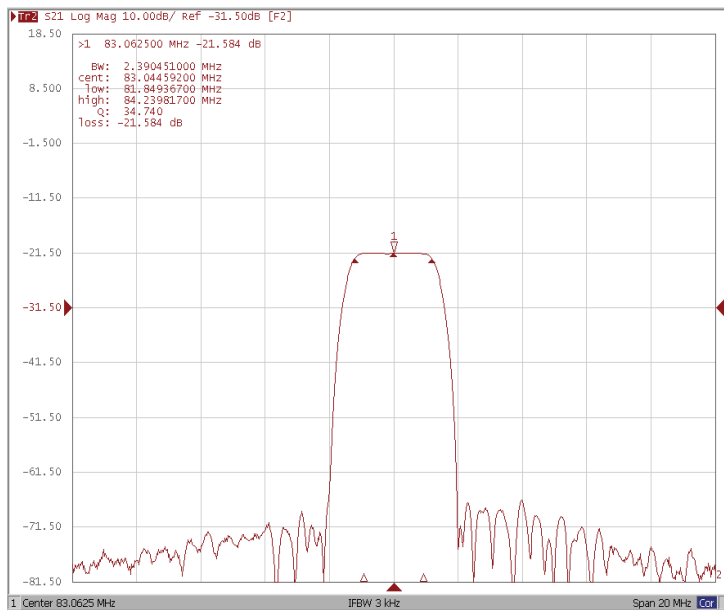
E-mail: [butis.m@ru.net](mailto:butis.m@ru.net)

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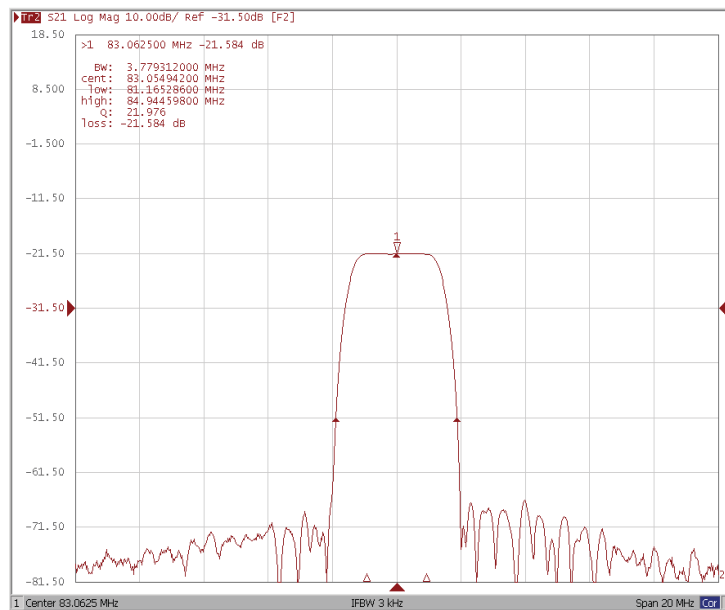
□ q y

## Frequency Response

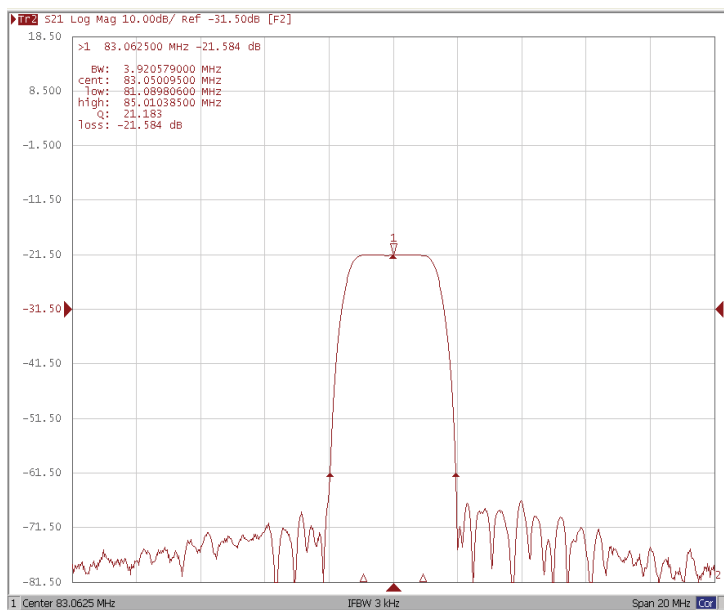
### Bandwidth at -1.0 dB



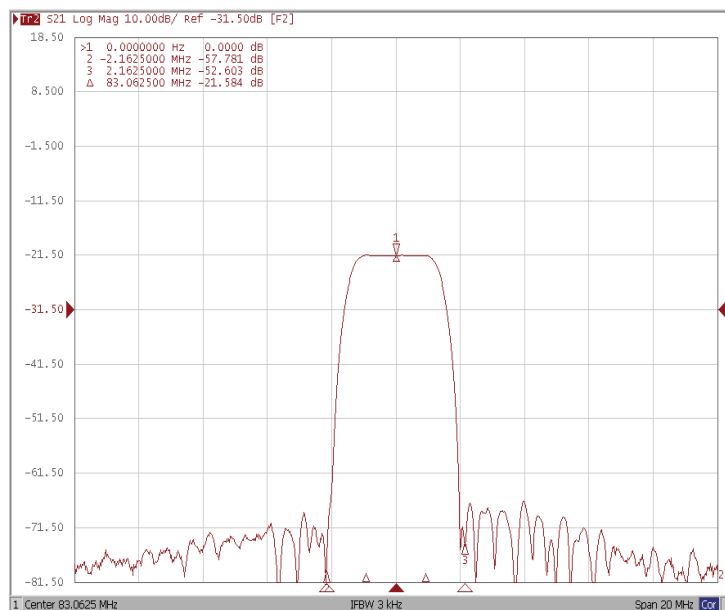
### Bandwidth at -30.0 dB



### Bandwidth at -40.0 dB



### Relative Attenuation Fo±2.1625MHz





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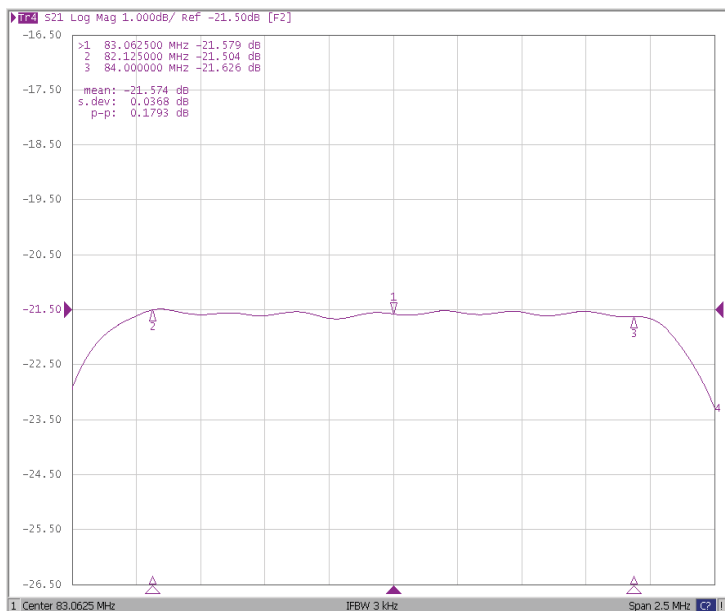
E-mail: [butis.m@ru.net](mailto:butis.m@ru.net)

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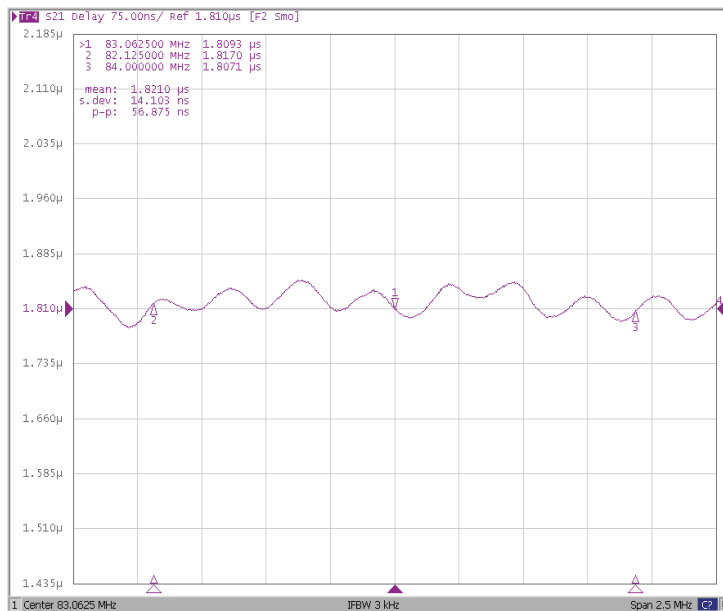
□ q y

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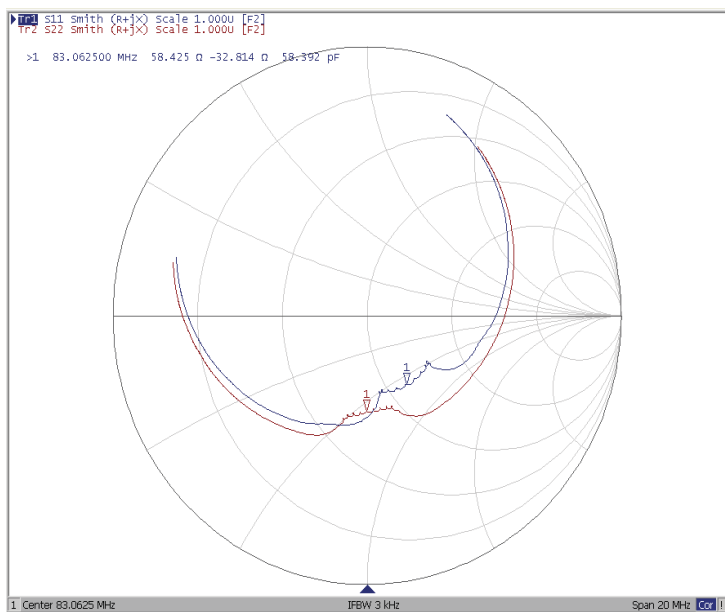
### Ripple Variation $Fo \pm 0.9375$



### Group Delay Variation $Fo \pm 0.9375$



### Smith Chart



### VSWR

