

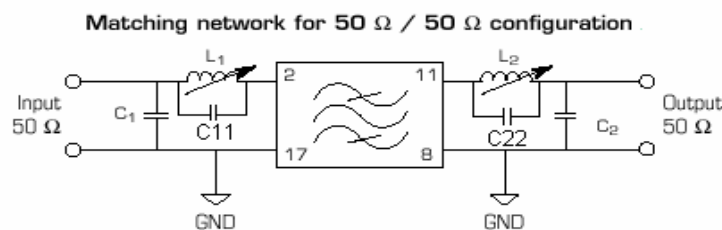
### Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.94	69.99	70.04
Insertion Loss	dB		18.5	20
1.5dB Bandwidth	MHz	0.8	0.87	
3dB Bandwidth	MHz		0.91	
40dB Bandwidth	MHz		1.15	1.20
50dB Bandwidth	MHz		1.23	
Passband Variation	dB		0.7	1
Group Delay Variation(in $F_c \pm 0.4\text{MHz}$ )	nsec		700	
Phase Linearity (in $F_c \pm 0.4\text{MHz}$ )	deg		5	
Absolute Delay	usec		9.51	
Ultimate Rejection(outside $F_c \pm 1.25\text{MHz}$ )	dB	50	55	
Input/Output SWR (1) at $F_c$			1.4	2
Source Impedance	ohm	-	50	-
Load Impedance	ohm	-	50	-
Substrate Material			Quartz	
Ambient Temperature	°C		25	
Package Size		HQ04 (73.28x19.94x6.5)		

#### Notes:

- (1) with matching network
- (2) All specifications are based on the test circuit shown below
- (3) Electrical margin has been built into the design to account for the variations due to manufacturing tolerances
- (4) This specification is valid for room temperature only

### Matching Configuration



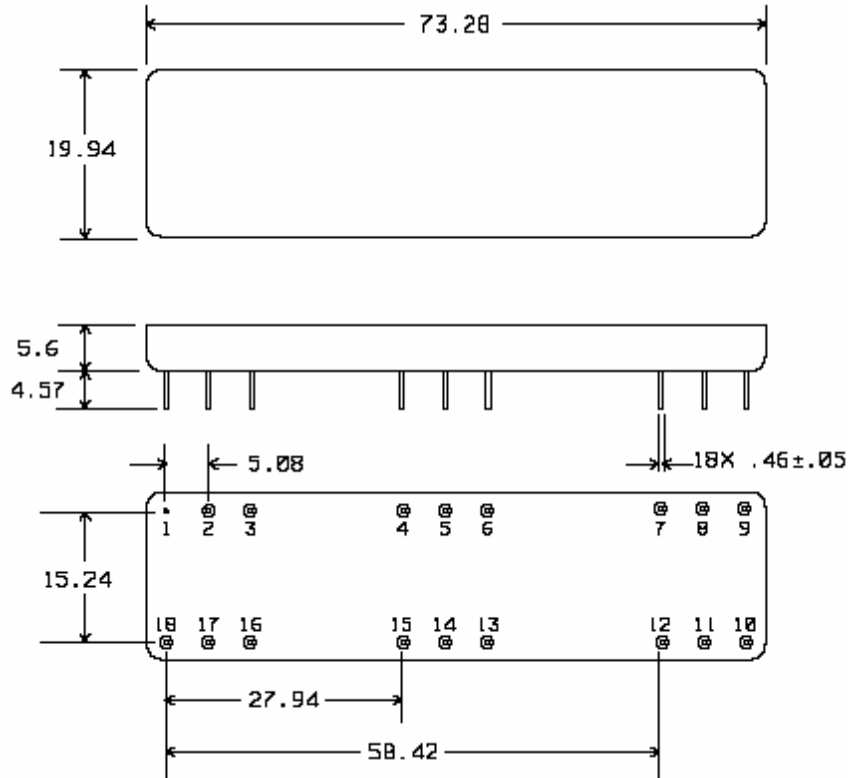
Typical component values: L1 = 68nH C1 = 150pF C11 = 3.6 pF  
(minimum inductor Q = 50) L2 = 100 nH C2 = 100pF C22 = 3.6 pF



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*Package Dimension*



Pin Configuration:

Units: mm

Input: 2

Output: 11

Ground: other

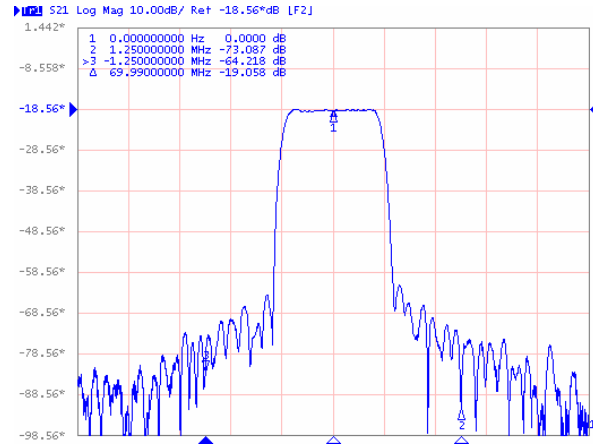


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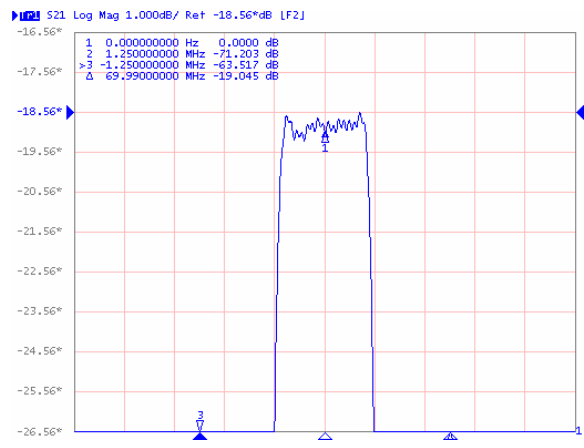
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Typical Performance

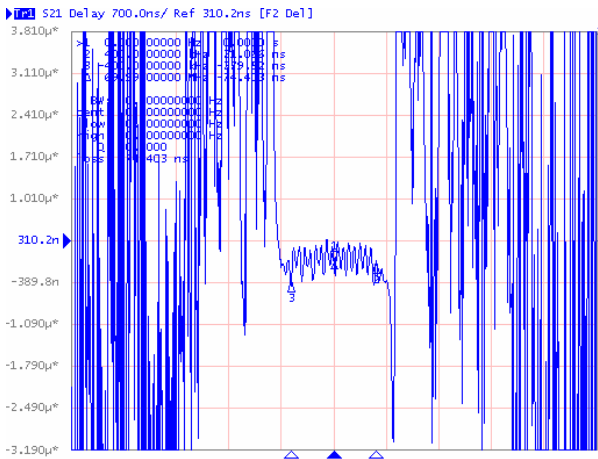
Frequency Respond



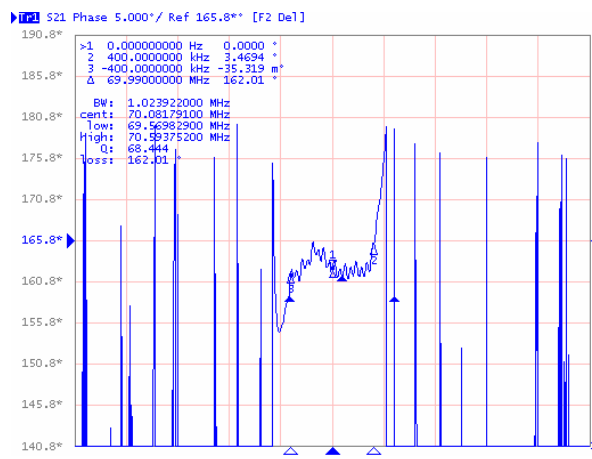
Passband Respond



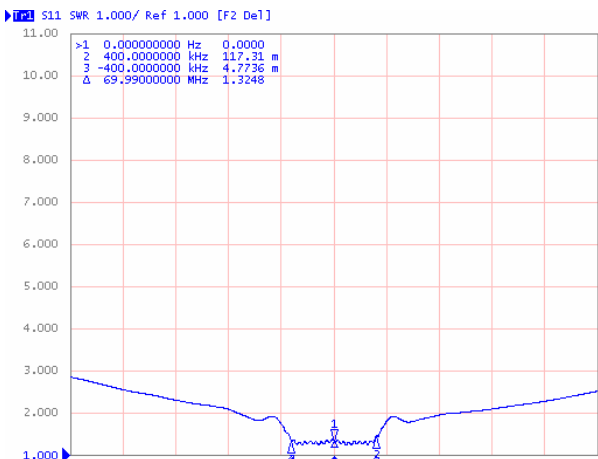
Group Delay Variation( $f_0 \pm 0.4$  MHz)



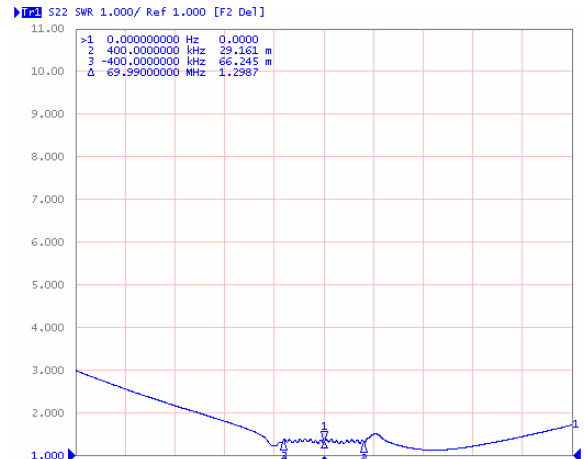
Phase Linearity( $f_0 \pm 0.4$  MHz)



VSWR S11

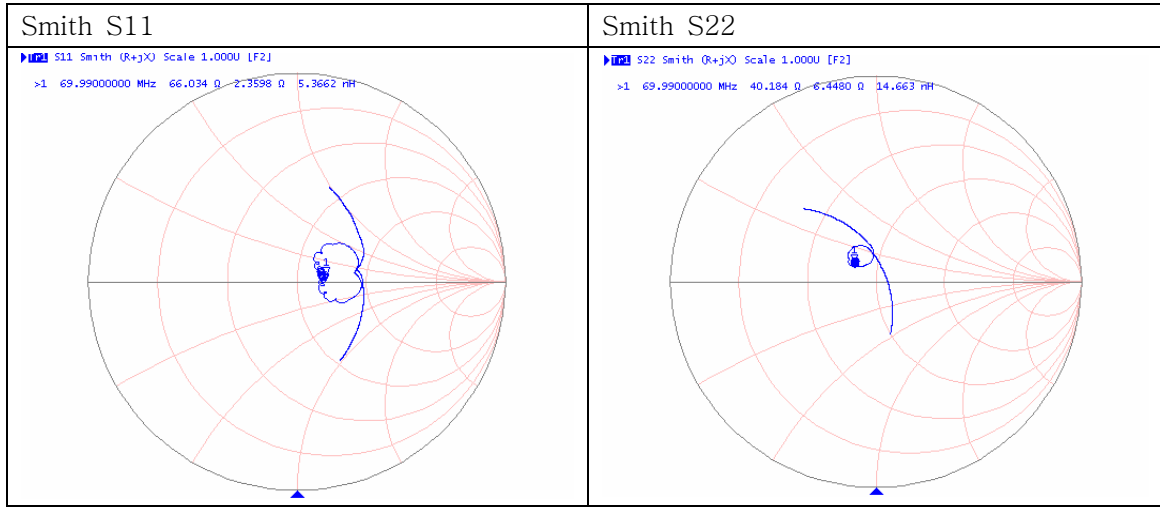



VSWR S22



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