


### Specifications

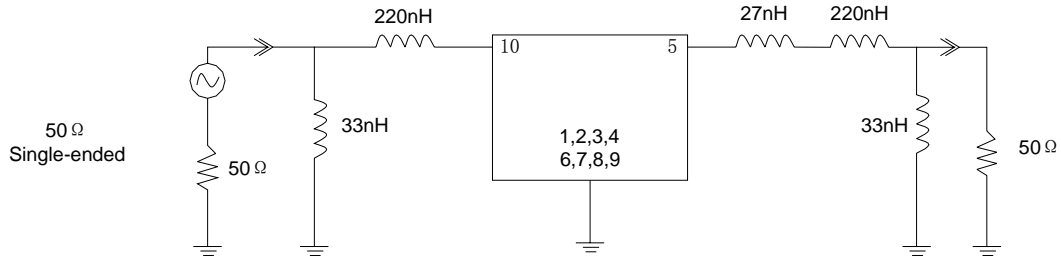
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz		69.99	
Insertion Loss	dB		17.8	20
Lower 1.5dB Bandedge	MHz		69.32	69.36
Upper 1.5dB Bandedge	MHz	70.62	70.64	
Lower 14dB Bandedge	MHz	69.21	69.23	
Upper 14dB Bandedge	MHz		70.73	70.77
Lower 25dB Bandedge	MHz	69.09	69.16	
Upper 25dB Bandedge	MHz		70.81	70.89
Passband Variation(69.375~70.605MHz)	dB		0.5	1
Phase Linearity(69.375~70.605MHz)	degree		5	8
Input VSWR at f <sub>0</sub>			1.3	1.92
Output VSWR at f <sub>0</sub>			1.1	1.92
Stopband Rejection(15~61MHz)		40	53	
Stopband Rejection(61~68MHz)		30	35	
Stopband Rejection(72~79MHz)		30	34	
Stopband Rejection(79~140MHz)		40	45	
Substrate Material		Quartz		
Ambient Temperature	°C	25		
Package Size		24.64mmx8.99mmx1.75mm		

#### Notes:

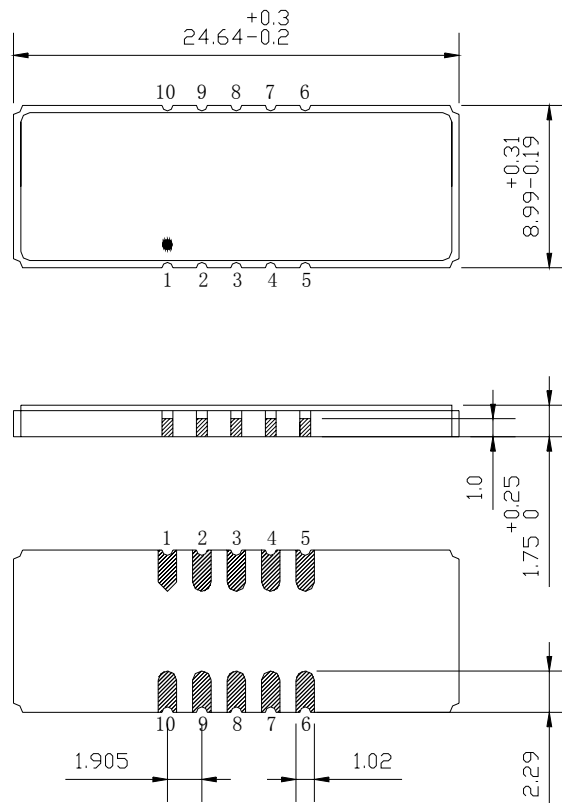
1. All specifications are based on the test circuit shown
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
4. This is the optimum impedance in order to achieve the performance show

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### Matching Configuration



### Package Dimension



**Input: 10**  
**Output: 5**

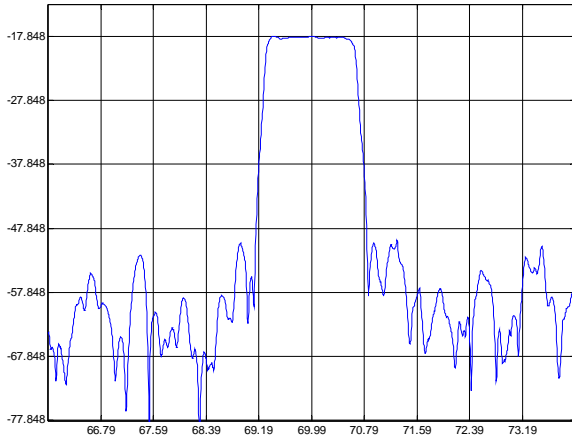


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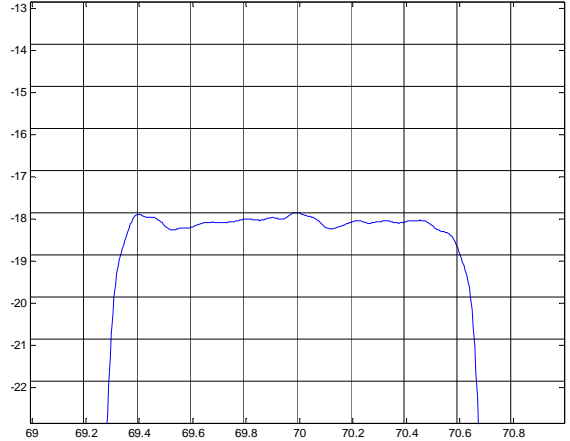
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Typical Performance

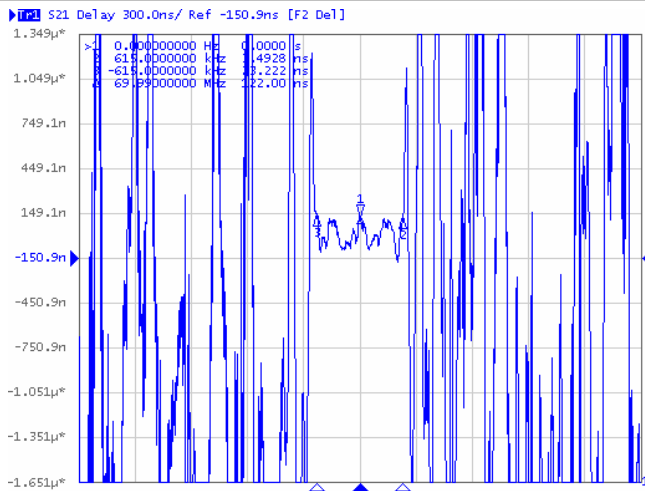
Frequency Respond



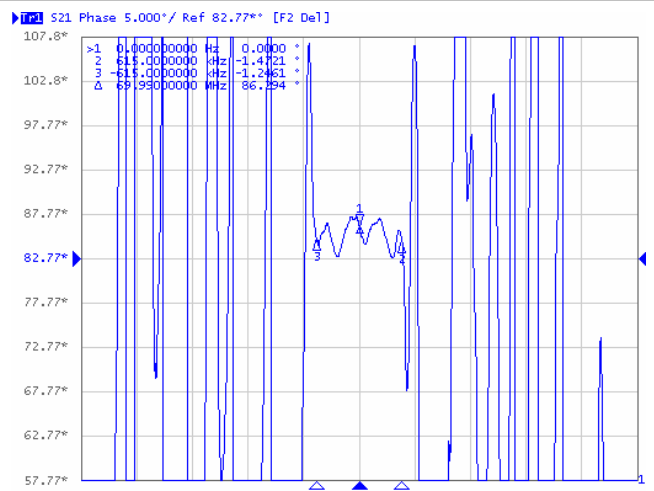
Passband Respond



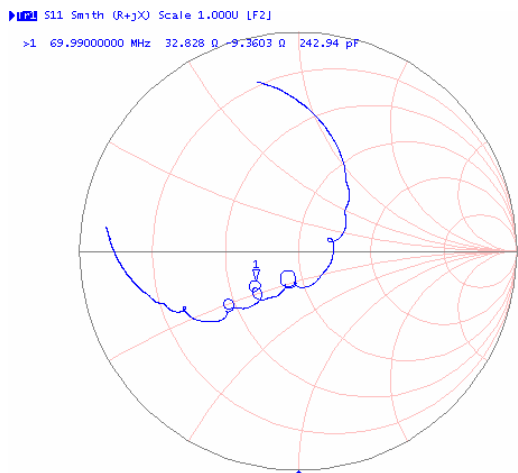
Group Delay Variation( $f_0 \pm 0.615\text{MHz}$ )



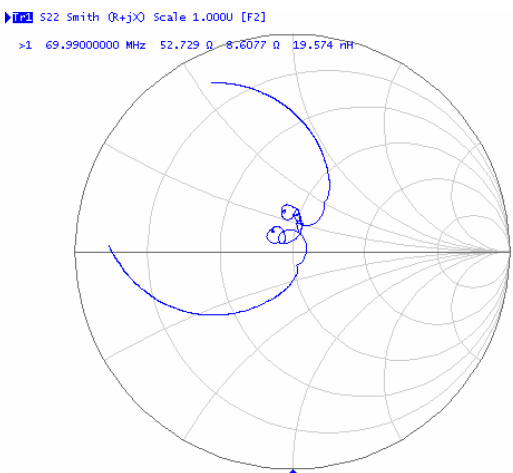
Phase Linearity( $f_0 \pm 0.615\text{MHz}$ )



Smith Chart S11

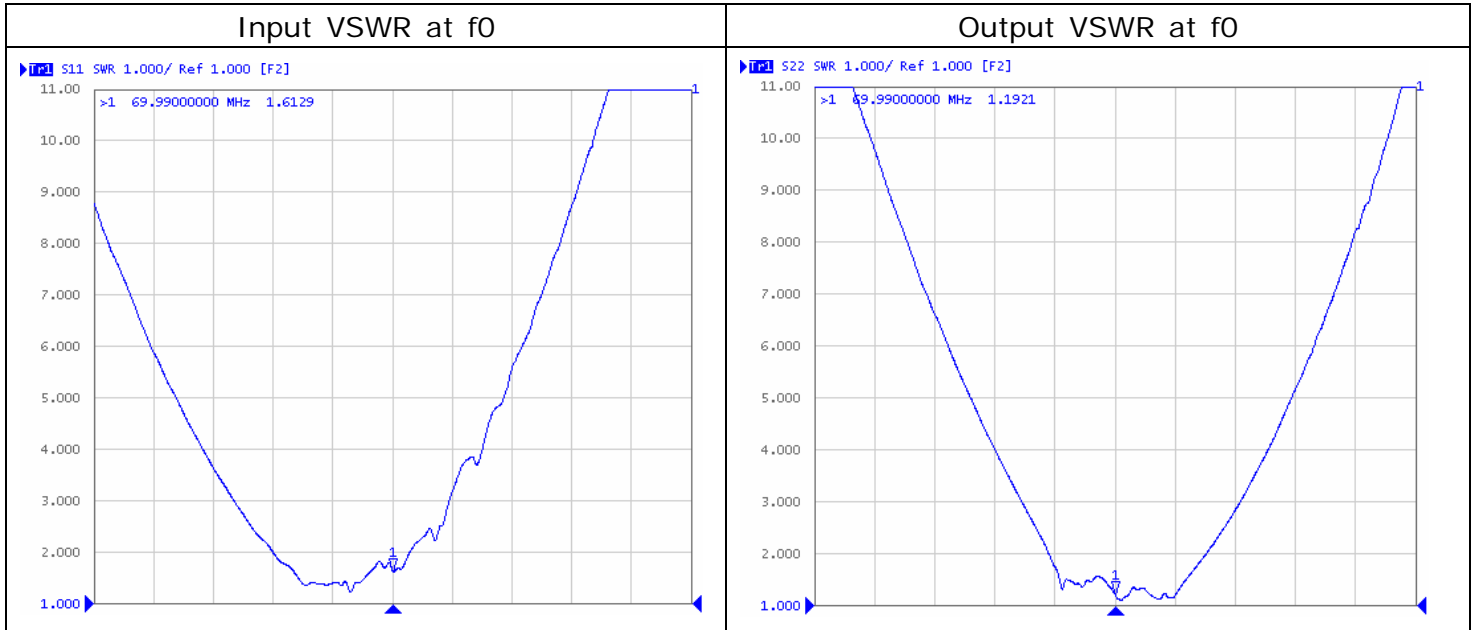



Smith Chart S22



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