

Specifications

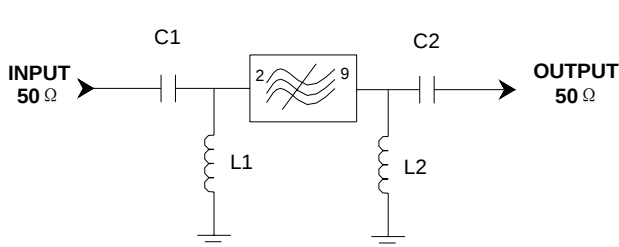
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	243.95	-
Insertion Loss	dB	-	5.6	7
3dB Bandwidth	MHz	0.3	0.46	-
3dB Bandwidth low point	-	-	243.7	243.8
3dB Bandwidth high point	-	244.1	244.2	-
Passband Variation($f_0 \pm 110\text{kHz}$)	dB	-	0.65	1
Group Delay Variation($f_0 \pm 110\text{kHz}$)	nsec	-	80	200
Absolute Delay	usec	-	1.42	-
Attenuation				
@Fn-1.3MHz	dB	29	33	-
f0-1.3MHz to f0-0.72MHz	dB	20	42	-
@Fn-0.7MHz	dB	26	33	-
@Fn-0.6MHz	dB	24	34	-
@Fn-0.5MHz	dB	13	17	-
@Fn+0.5MHz	dB	13	14	-
@Fn+0.6MHz	dB	24	25	-
@Fn+0.7MHz	dB	26	33	-
f0+0.73MHz to f0+1.3MHz	dB	20	42	-
@Fn+1.3MHz	dB	29	30	-
@Fn+10.8MHz	dB	40	42	-
Input/Output VSWR	-	-	1.35	2
Source Impedance	ohm	-	50	-
Load Impedance	ohm	-	50	-
Subatrte Material	-	Quartz		
Operating Temperature Range	°C	-15~+60		
Storage Temperature Range	°C	-25~+85		
Ambient Temperature	°C	25		
Package Size	SMD 11*4B(11.4X4X1.7mm ³)			

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

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Matching Configuration



$L1 = L2 = 18\text{nH}$

$C1 = C2 = 22\text{pF}$

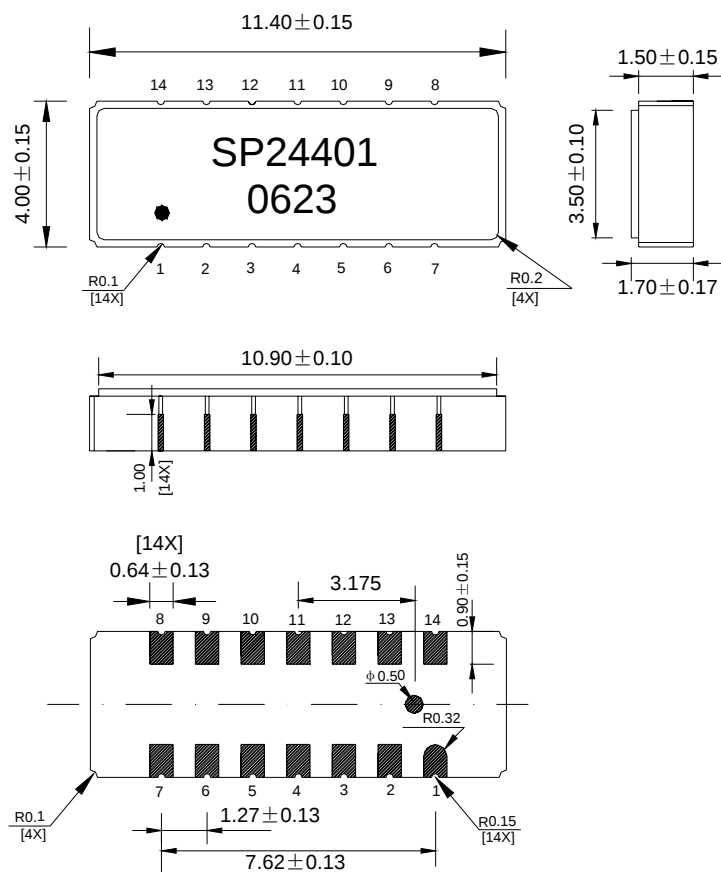
Capacitance : Tolerance $\pm 5\%$

Inductance : Tolerance $\pm 10\%$

Q 35

Maxing rating current:350mA

Package Dimension

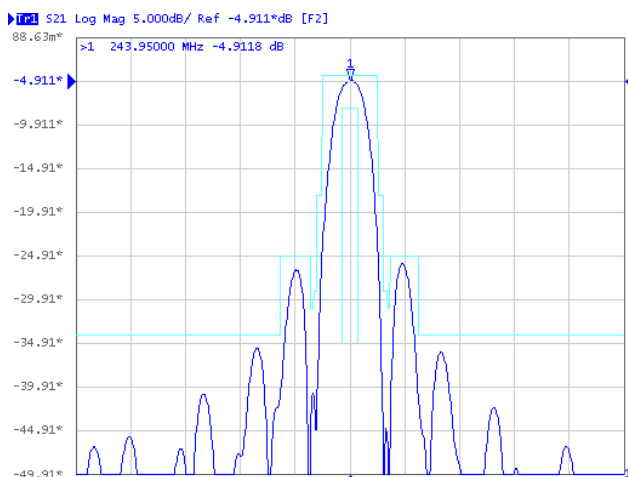


2 input
9 output
Others:grounded

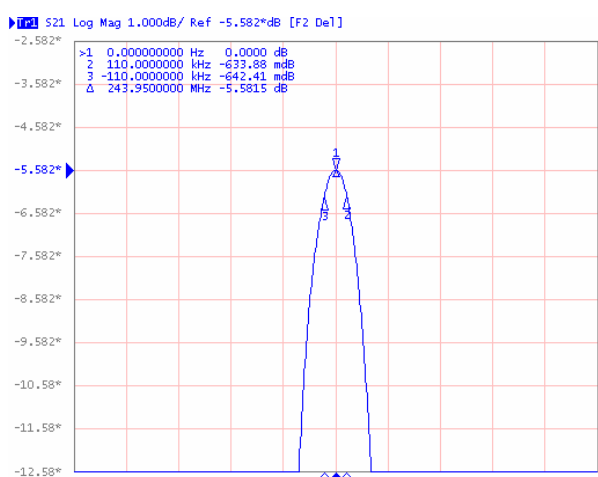
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Typical Performance

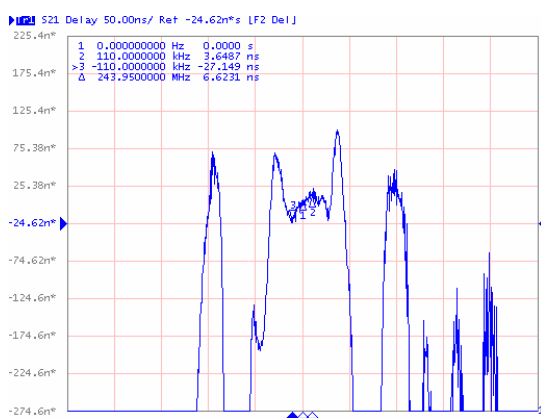
Frequency Response



Passband Response



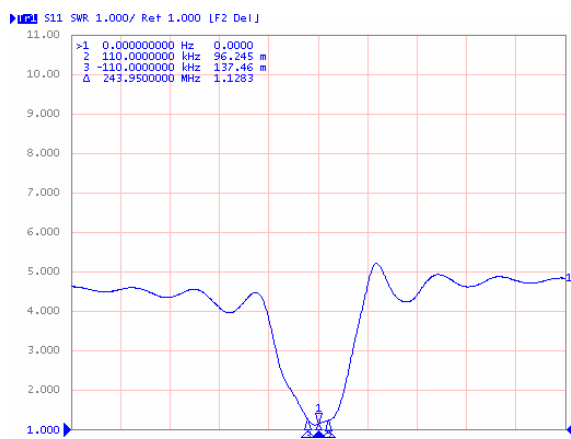
Group Delay Variation($f_0 \pm 110\text{KHz}$)



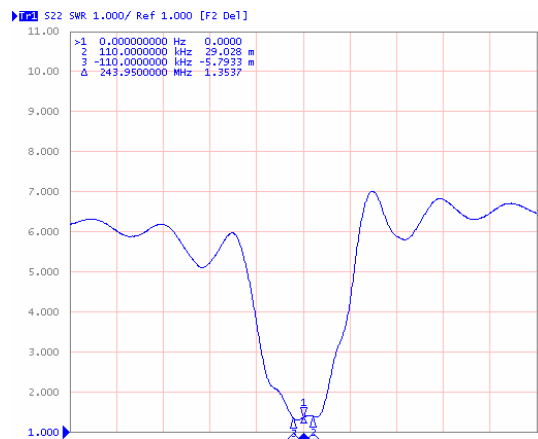
Phase Linearity($f_0 \pm 110\text{KHz}$)



VSWR S11



VSWR S22



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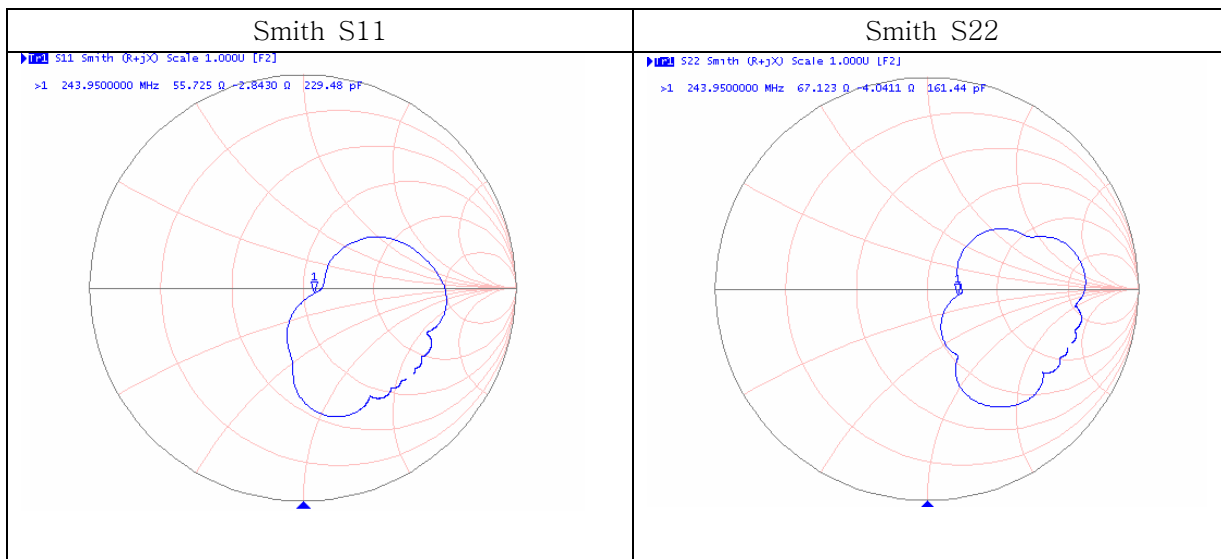
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