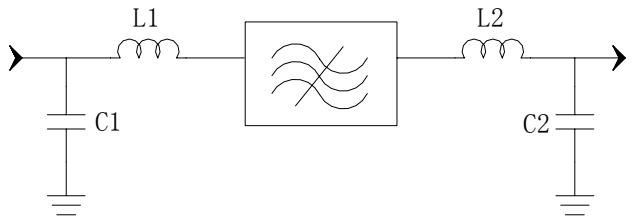
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	171.92	172	172.08
Insertion Loss	dB	-	25	27
1 dB Bandwidth	MHz		5.78	-
3 dB Bandwidth	MHz	6	6.02	-
18dB Bandwidth	MHz	-	6	6.6
40 dB Bandwidth	MHz	-	6.85	7
50 dB Bandwidth	MHz	-	7.1	7.4
Passband Variation	dB	-	0.9	1.5
Absolute Delay	usec	-	3.342	-
Group Delay Variation(f0±2.8MHz)	nsec	-	100	200
Ultimate Rejection	dB	45	48	-
Material Temperature coefficient	KHz/°C	-3.096		
Ambient Temperature	°C	25		
Package Size	DIP2712 (27.0x12.8x4.7mm3)			

Notes:

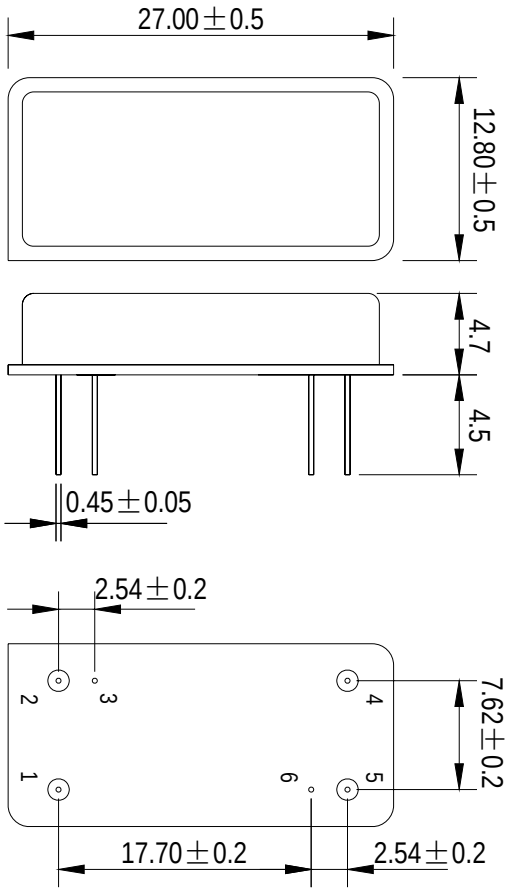
1. All specifications are based on the test circuit shown
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
3. Electrical margin has been built into the design to account for the variations due to temperature drift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

Matching Configuration



L1=68nH L2=56nH
C1=39pF C2=36pF
Source/Load Impedance=50 ohm
Notes - Component values may change depending on board layout.

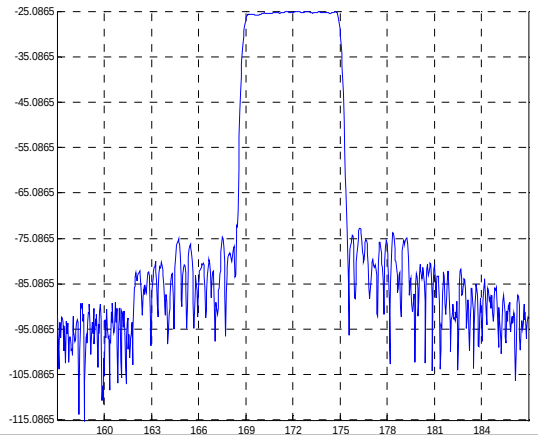
Package Dimension



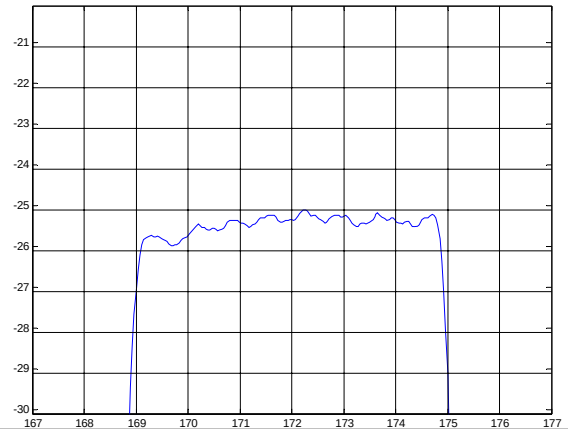
Input:1
Output:5

Typical Performance

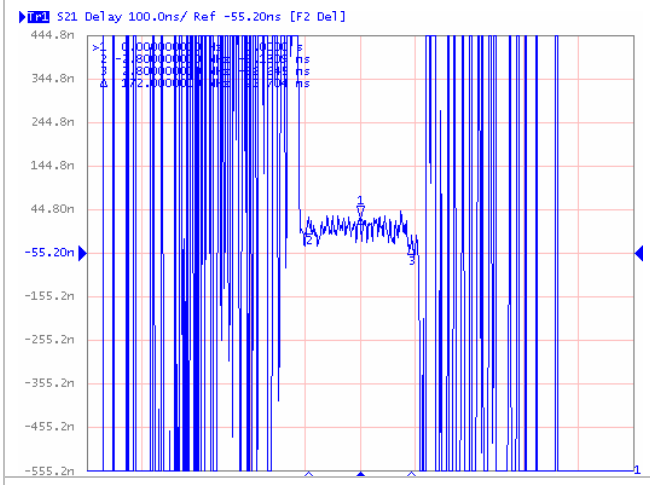
Frequency Respond



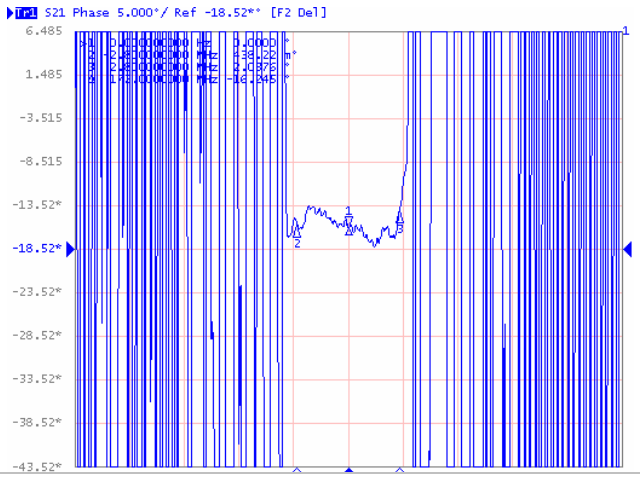
Passband Respond



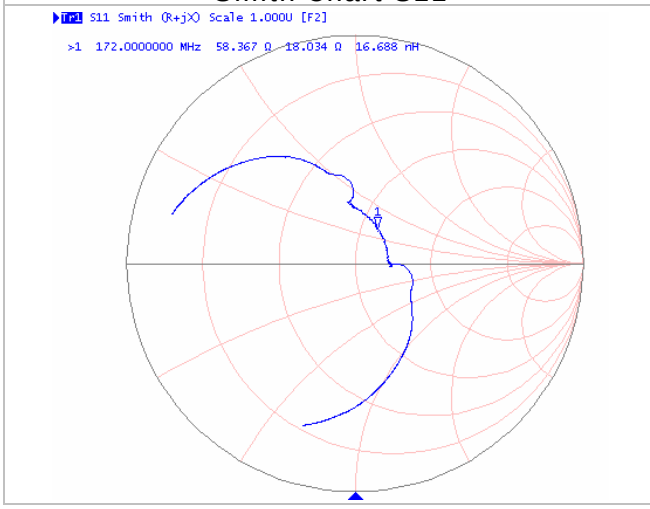
Group Delay Variation(f0±2.8MHz)



Phase Linearity(f0±2.8MHz)



Smith Chart S11



Smith Chart S22