

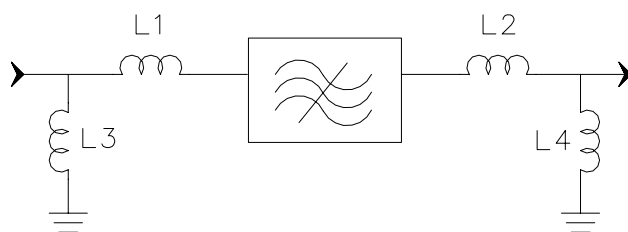
Specifications

| Parameter | Unit | Minimum | Typical | Maximum |
|----------------------------------|--|---------|---------|---------|
| Center Frequency | MHz | 69.88 | 70 | 70.12 |
| Insertion Loss | dB | — | 12.5 | 14 |
| 1 dB Bandwidth | MHz | 2 | 2.05 | — |
| 3 dB Bandwidth | MHz | 2.5 | 2.6 | — |
| 40 dB Bandwidth | MHz | — | 4.67 | 5.5 |
| Passband Variation | dB | — | 0.5 | 1.0 |
| Group Delay Variation(f0±0.7MHz) | nsec | — | 150 | 400 |
| Phase Linearity (f0±0.7MHz) | deg | — | 12 | — |
| Absolute Delay | usec | — | 1.37 | — |
| Ultimate Rejection | dB | 40 | 45 | — |
| Material Temperature coefficient | KHz/°C | -1.26 | | |
| Ambient Temperature | °C | 25 | | |
| Package Size | SMP-53A (13.3x6.5mm Nominal Footprint) | | | |

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

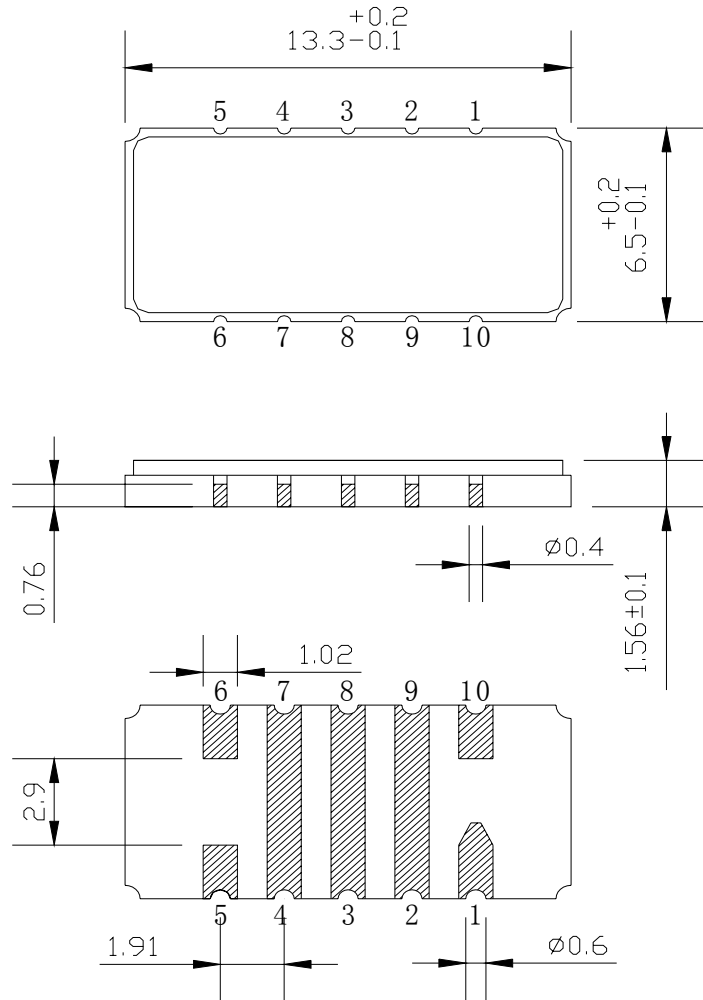


L1=120nH L2=100nH
L3=68nH L4=120nH
Source/Load Impedance=50 ohm


Notes - Component values may change depending on board layout.

| | | | | |
|--|---|-------------|-----------|------|
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Package Dimension

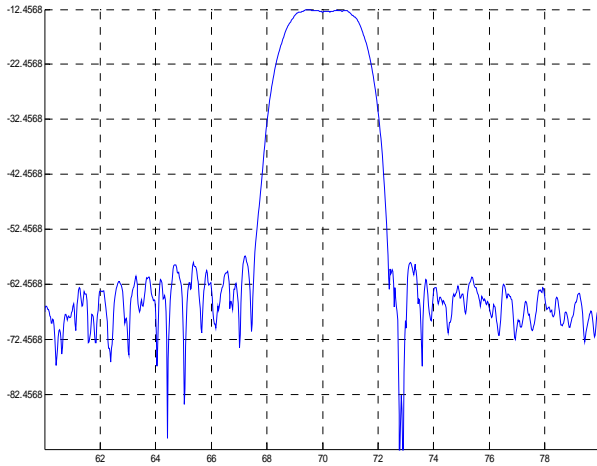


Input:10
Output:5

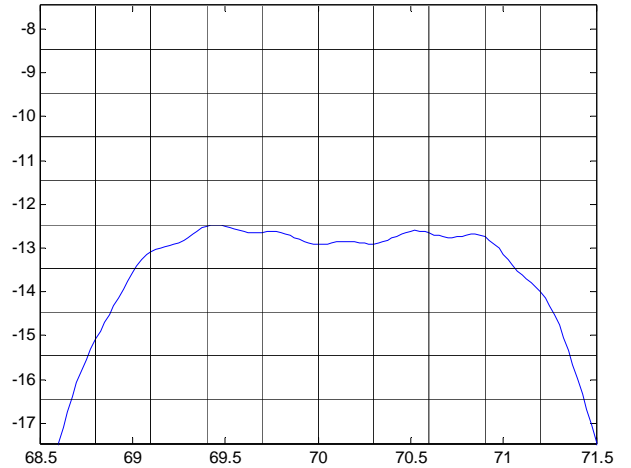
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Typical Performance

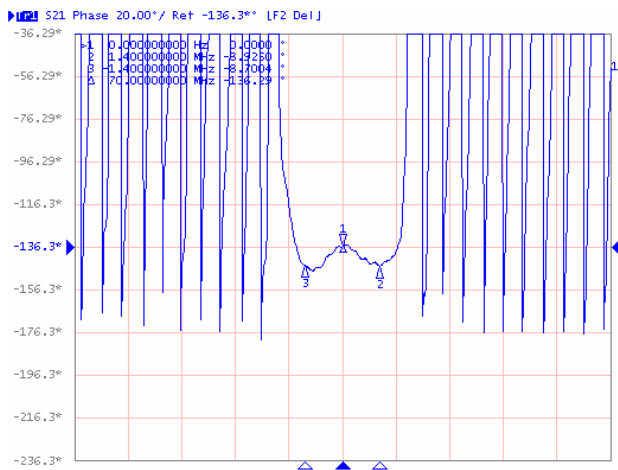
Frequency Response



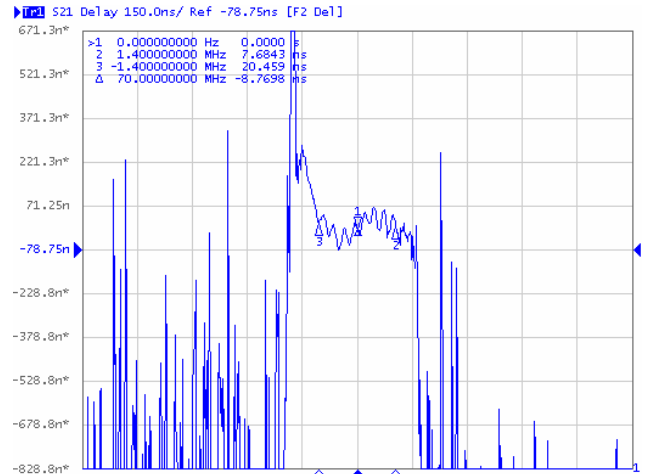
Passband Response



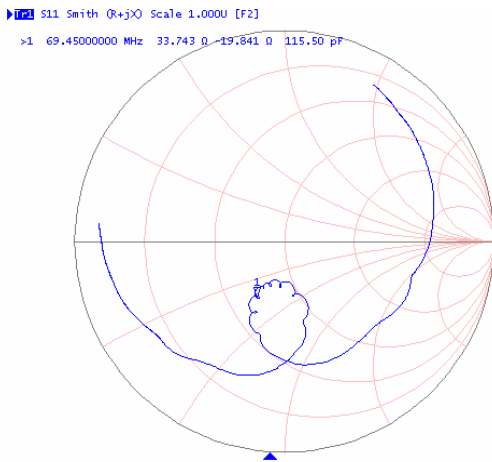
Phase Linearity($f_0 \pm 1.4\text{MHz}$)



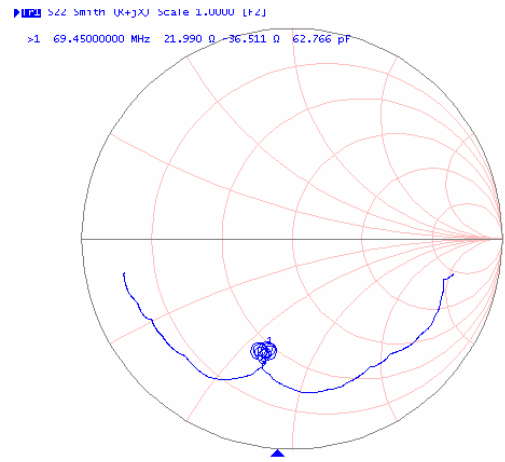
Group delay Variation($f_0 \pm 1.4\text{MHz}$)



Smith Chart S11



Smith Chart S22



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| | | |
|-------------|-----------|----------|
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