

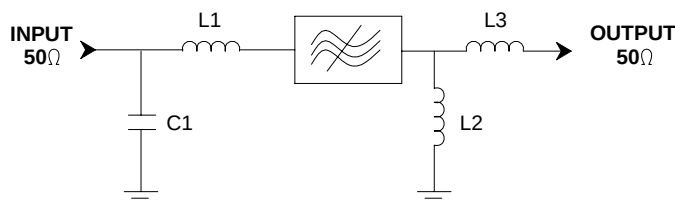
## Specifications

| Parameter           | Unit                                    | Minimum | Typical | Maximum |
|---------------------|-----------------------------------------|---------|---------|---------|
| Center Frequency    | MHz                                     | 114.8   | 115     | 115.2   |
| Insertion Loss      | dB                                      | -       | 27.4    | 28      |
| 2 dB Bandwidth      | MHz                                     | 6.1     | 6.16    | -       |
| 35 dB Bandwidth     | MHz                                     | -       | 6.78    | 6.8     |
| Absolute Delay      | usec                                    | -       | 4.367   | 4.5     |
| Passband Variation  | dB                                      | -       | 1.4     | 2       |
| Ultimate Rejection  | dB                                      | 50      | 51      | -       |
| Subatrate Material  |                                         | 112LT   |         |         |
| Ambient Temperature | °C                                      | 25      |         |         |
| Package Size        | DIP3512 (35.0x12.8x4.7mm <sup>3</sup> ) |         |         |         |

### 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=47nH L2=L3=33nH C1=82PF

**Source / Load Impedance=50 ohm**

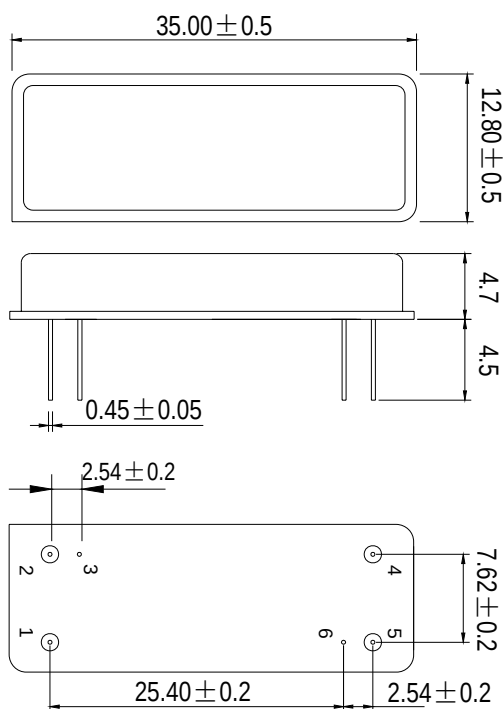
Notes - Component values may change depending  
on board layout.



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|             |             |          |  |
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| Part Number | SP LBT11523 |          |  |
| Rev. Date   | 2004-11-1   |          |  |
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## Package Dimension

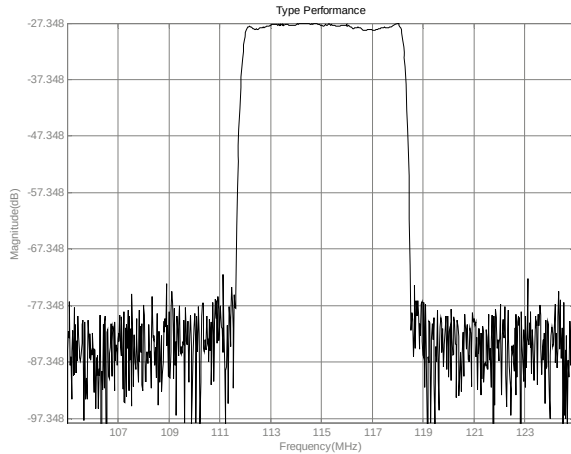


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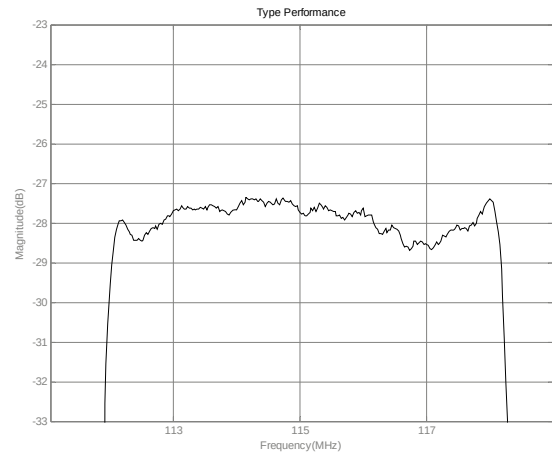
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## Typical Performance

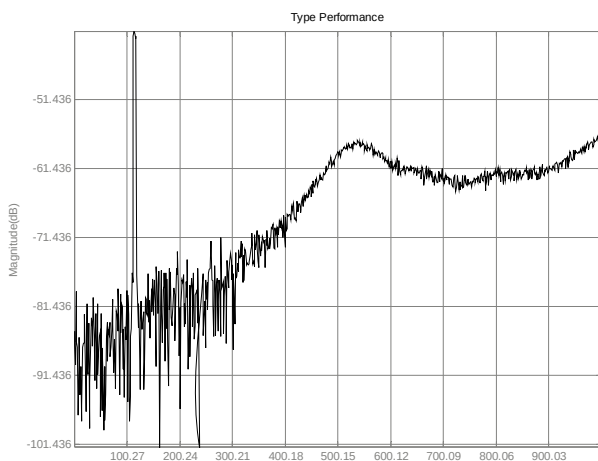
Frequency Response



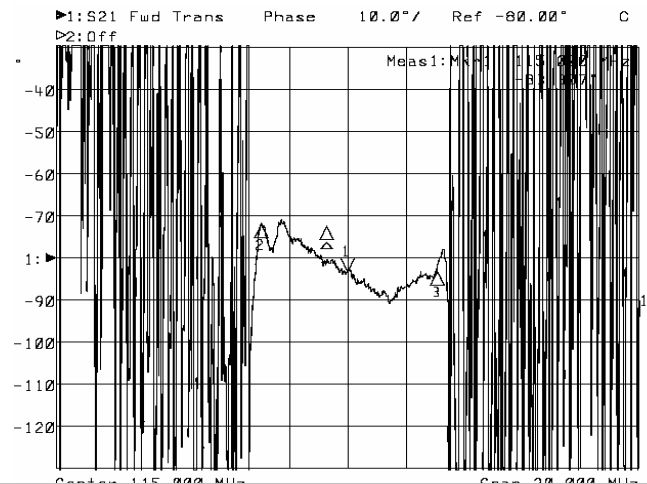
Passband Response



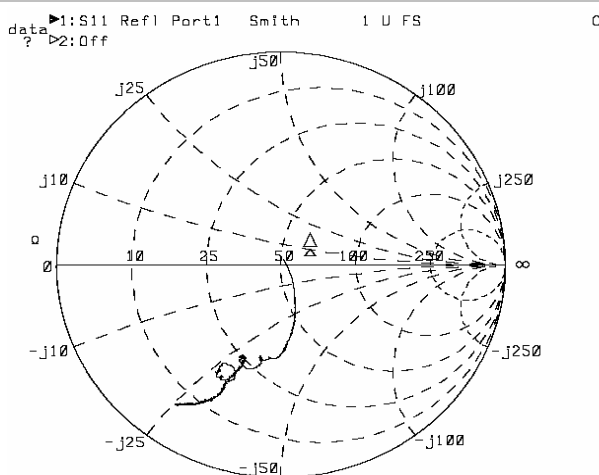
Wideband Response



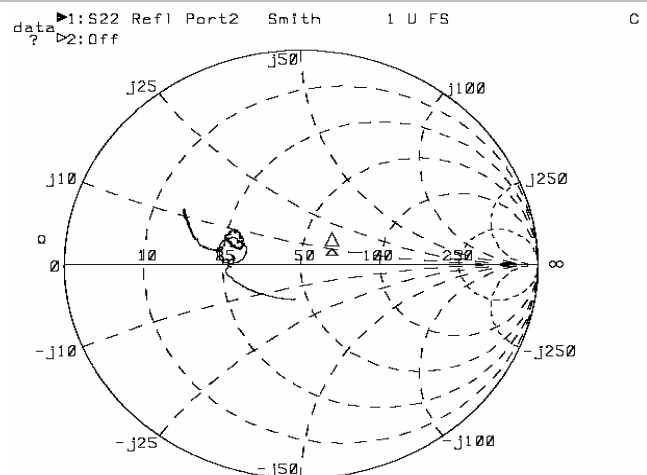
Phase Linearity



Smith Chart S11



Smith Chart S22



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