# 150.0 MHz SAW Filter
## Part Number 250934B

## 1. Features

- Typical 1dB bandwidth of 9.3 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

**RoHS Compliant**

Tested by SGS Testing Korea

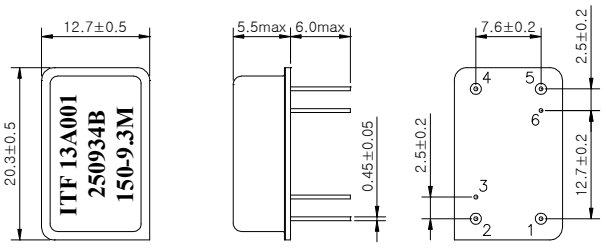
## 2. Electrical Specifications

Source and Load Impedance = 50Ω

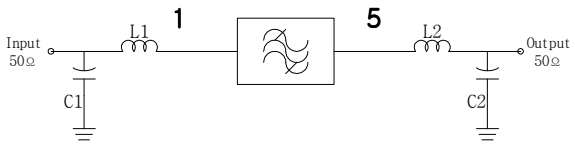
| Room Temperature : +25℃ | | Minimum | Typical | Maximum |
|---|---|---|---|---|
| Center Frequency (fo) | MHz | - | 150.0 | - |
| Insertion Loss | dB | - | 22.5 | 24.5 |
| 1dB Bandwidth | MHz | 9.3 | 9.35 | - |
| 3dB Bandwidth | MHz | - | 9.63 | - |
| 40dB Bandwidth | MHz | - | 10.73 | 10.8 |
| Amplitude Ripple (fo ± 4.5075 MHz) | dB | - | 0.85 | 1.2 |
| Group Delay Variation (fo ± 4.5075 MHz) | Nsec | - | 100 | 200 |
| Absolute Delay | usec | - | 2.31 | - |
| Ultimate Rejection | dB | 50 | 55 | - |
| Temperature Coefficient of Frequency | ppm/℃ | - | -84 | - |

Input POWER : +10dBm

**D2012 Package Dimension**




**Matching Schematic**




**L1 = 22nH, L2 = 22nH, C1 = 33pF, C2 = 33pF**

Dimensions shown are nominal in millimeters

Base : Fe(SPCC), Au plating over Ni plated
Cap : Cu & Cr Alloy, Ni Plated
Termination : Kovar, Au Plated

| Pin Configuration | | | |
|---|---|---|---|
| **Input** | **1** | **Ground** | **2,4** |
| **Output** | **5** | **Others** | **Ground** |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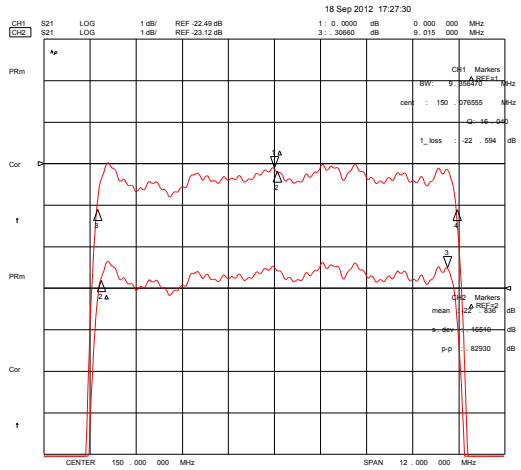
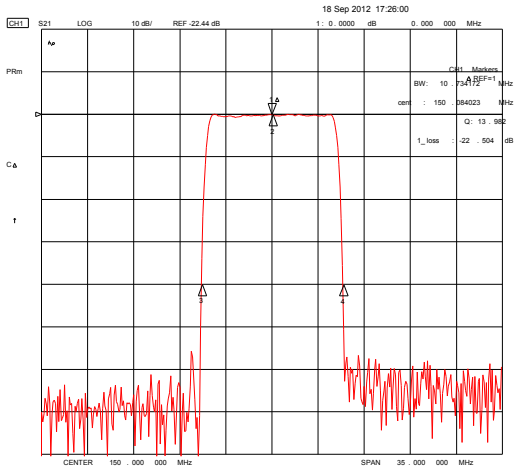
**Rev 1.0**

## 3. Typical Performance ( at +25℃ )

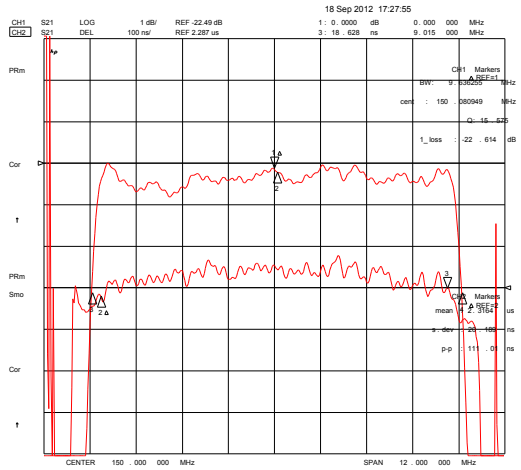
### 1dB Bandwidth & Ripple



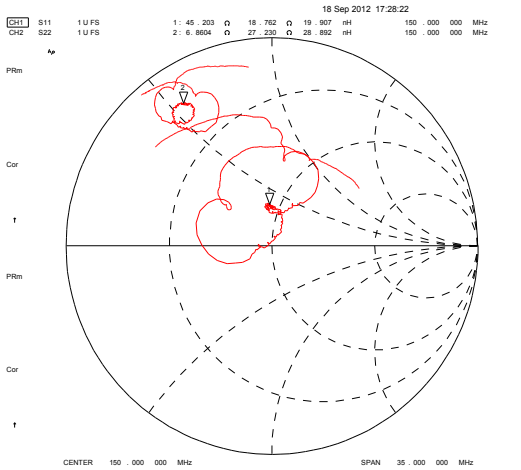

### 40dB Bandwidth



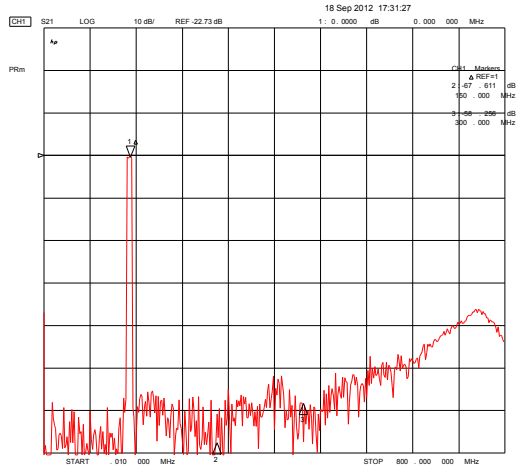

### 3dB Bandwidth & Group Delay




### Smith Chart(S11 & S22)




### Wideband Properties




### SWR(S11 & S22)