# 145.0 MHz SAW Filter
## Part Number 251925B

## 1. Features

- Typical 1dB bandwidth of 19.3 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

**RoHS Compliant**

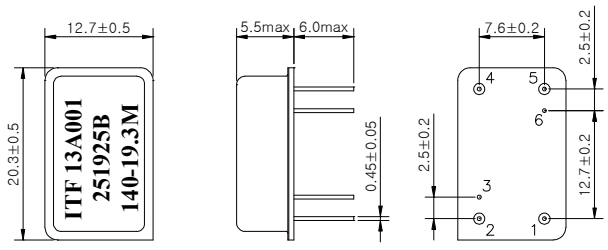
Tested by SGS Testing Korea

## 2. Electrical Specifications

Source and Load Impedance = 50Ω

| Room Temperature : +25℃ | | Minimum | Typical | Maximum |
|---|---|---|---|---|
| Center Frequency (fo) | MHz | - | 145.0 | - |
| Insertion Loss | dB | - | 26.5 | 28.0 |
| 1 dB Bandwidth | MHz | 19.15 | 19.36 | - |
| 3dB Bandwidth | MHz | - | 19.68 | - |
| 20dB Bandwidth | MHz | - | 20.6 | 20.65 |
| 40dB Bandwidth | MHz | - | 21.05 | - |
| Amplitude Ripple (fo ± 9.4 MHz) | dB | - | 1.1 | 1.5 |
| Group Delay Variation (fo ± 9.4 MHz) | nsec | - | 40 | 80 |
| Absolute Delay | usec | - | 2.08 | - |
| Ultimate Rejection | dB | 40 | 45 | - |
| Maximum input Power | dBm | - | - | 10 |
| Temperature Coefficient of Frequency | ppm/℃ | -72 | | |

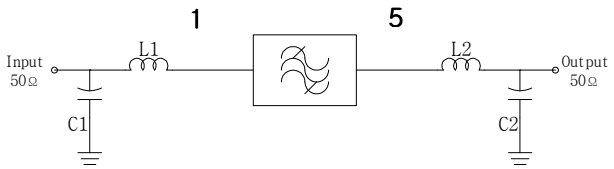
### D2012 Package Dimension




Dimensions shown are nominal in millimeters

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

### Matching Schematic




**L1 = 27nH, L2 = 27nH, C1 = 36pF, C2 = 27pF**

| Pin Configuration | | | |
|---|---|---|---|
| Input | 1 | Ground | 2,4 |
| Output | 5 | Others | Ground |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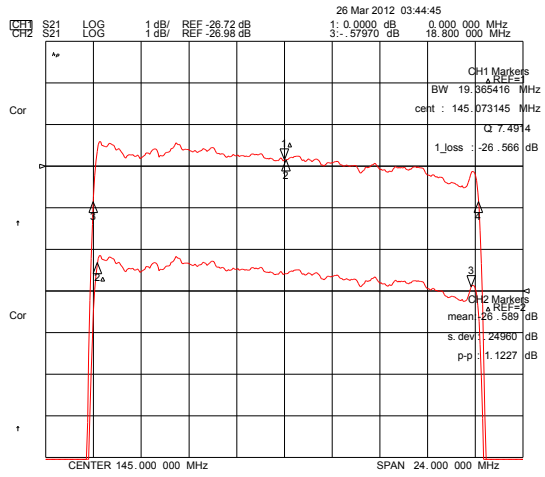
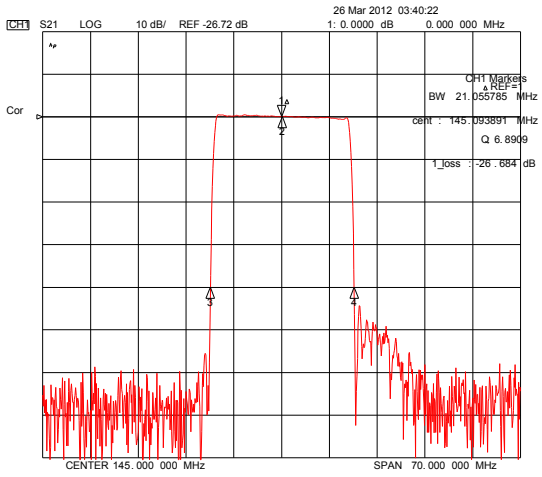
## 3. Typical Performance ( at +25℃ )

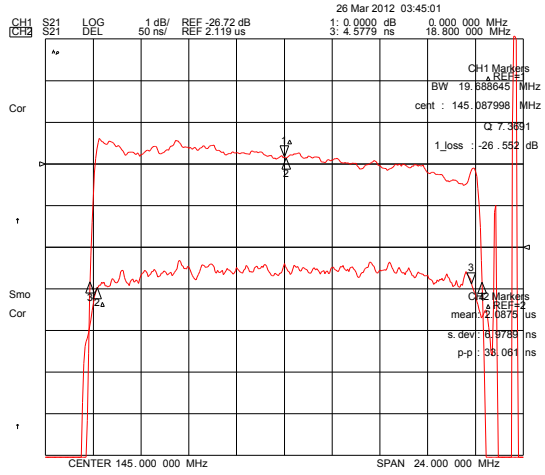
### 1dB Bandwidth & Ripple



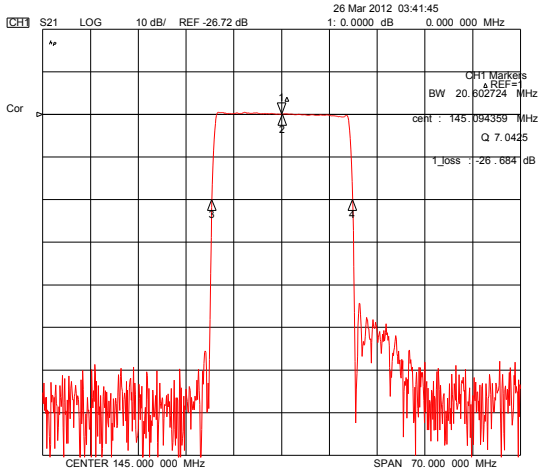

### 40dB Bandwidth



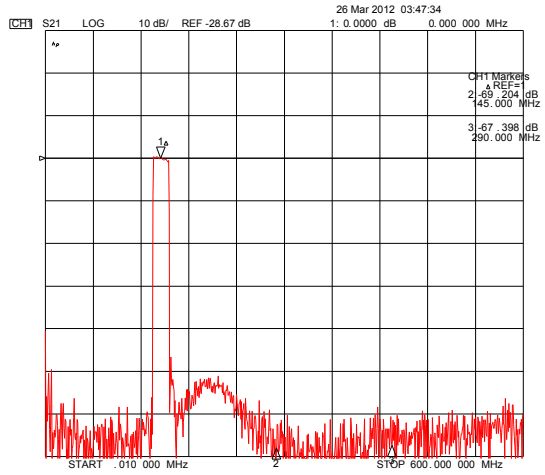

### 3dB Bandwidth & Group Delay




### 20dB Bandwidth




### Wideband Properties




### SWR(S11 & S22)