

- 62.50 MHz IF SAW Filter / 21.3 MHz Bandwidth
- Revision 0: 09 May 2008

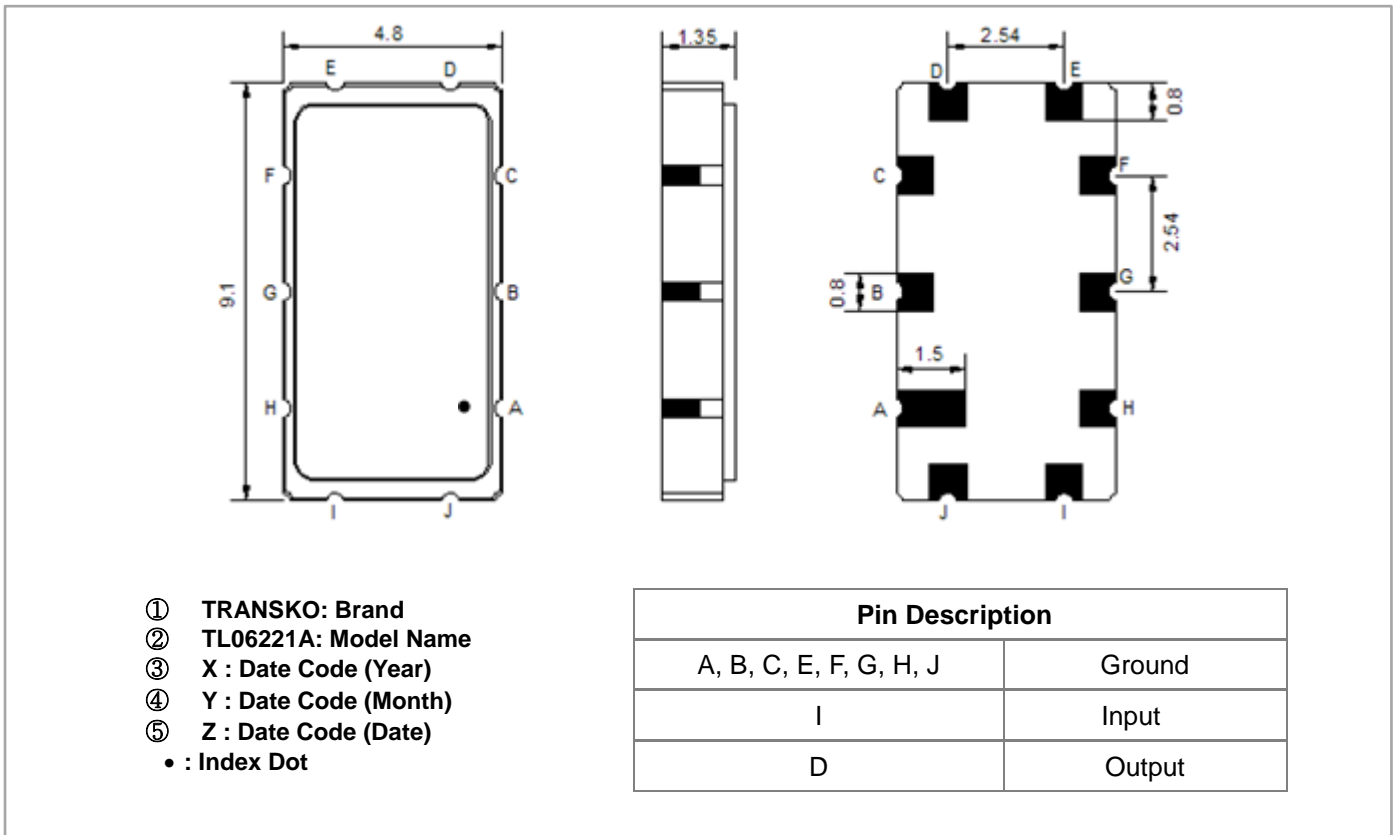
## Electrical Characteristics

| MAXIMUM RATING                                 |                 |         |           |         |
|--|-----------------|---------|-----------|---------|
| Parameters Description                         | Unit            | Minimum | Typical   | Maximum |
| Operating Temperature Range                    | °C              | -20     | -         | 70      |
| Storage Temperature Range                      | °C              | -40     | -         | 85      |
| Maximum DC Voltage                             | V               | -       | -         | 10      |
| Maximum Input Power                            | dBm             | -       | -         | 10      |
| Source Impedance (single ended) <sup>(1)</sup> | Ω               | -       | 50        | -       |
| Load Impedance (single ended) <sup>(1)</sup>   | Ω               | -       | 50        | -       |
| Package type & size                            | T               |         |           |         |
| Length x Width                                 | mm <sup>2</sup> | -       | 9.1 x 4.8 | -       |
| Height   | mm              | -       | -         | 1.5     |

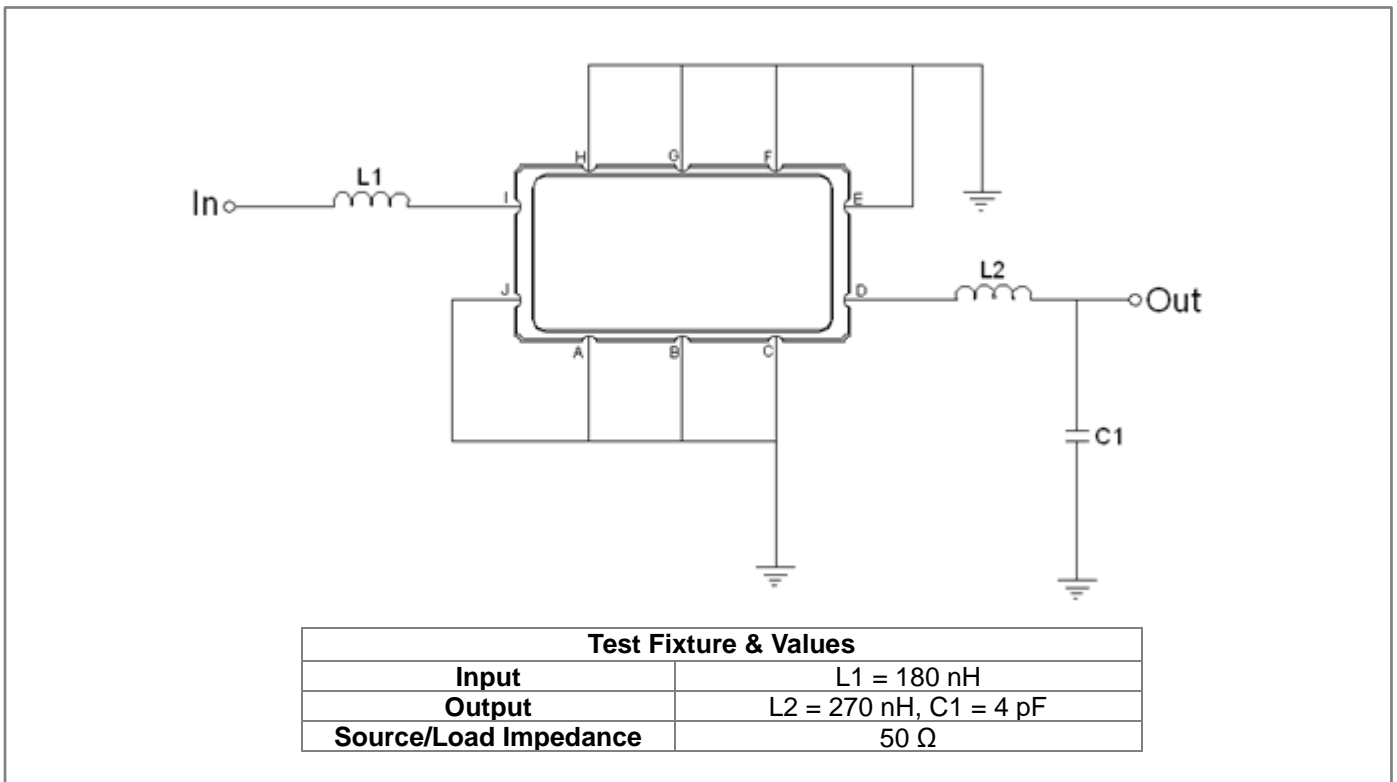
| ELECTRICAL SPECIFICATION           |        |         |         |         |
|------------------------------------|--------|---------|---------|---------|
| Parameters Description             | Unit   | Minimum | Typical | Maximum |
| Center Frequency (Fo)              | MHz    | -       | 62.5    | -       |
| Insertion Loss at Fo               | dB     | -       | 15.8    | 18.0    |
| Group Delay Variation (Fo±9.75MHz) | nsec   | -       | 17      | 35      |
| Absolute Delay at Fo               | usec   | -       | 0.66    | -       |
| Passband Ripple (Fo±9.22MHz)       | dB     | -       | 0.30    | 0.7     |
| Bandwidth at -1dB                  | MHz    | 20.80   | 21.30   | -       |
| Bandwidth at -3dB                  | MHz    | 21.80   | 22.82   | -       |
| Bandwidth at -20dB                 | MHz    | -       | 26.80   | -       |
| Bandwidth at -30dB                 | MHz    | -       | 28.10   | 28.60   |
| Bandwidth at -40dB                 | MHz    | -       | 29.25   | 30.00   |
| Ultimate Rejection                 | dB     | -       | 40      | -       |
| Temperature coefficient            | ppm/°C | -       | -86     | -       |

**Notes :** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).  
Those impedances could be modified with different impedance values and/or structures, if necessary.

## Package Dimensions



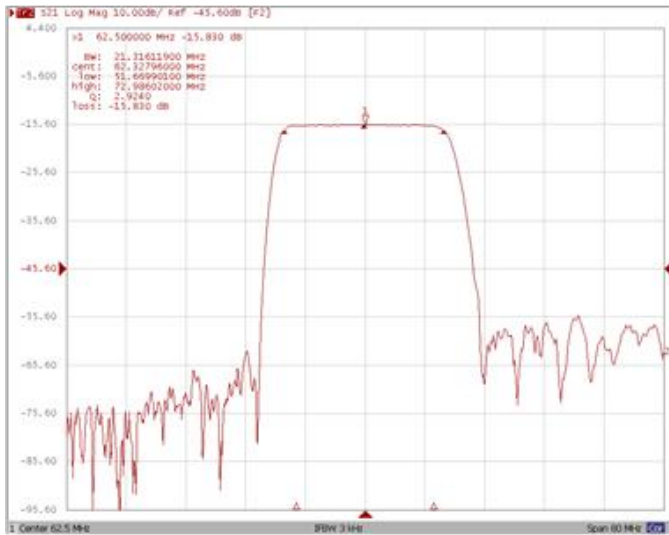
## Testing Environment



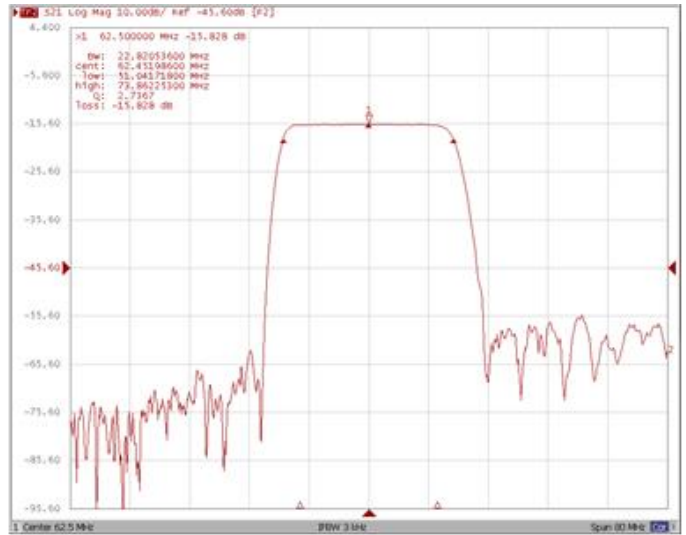
## Frequency Characteristics

### Frequency Response

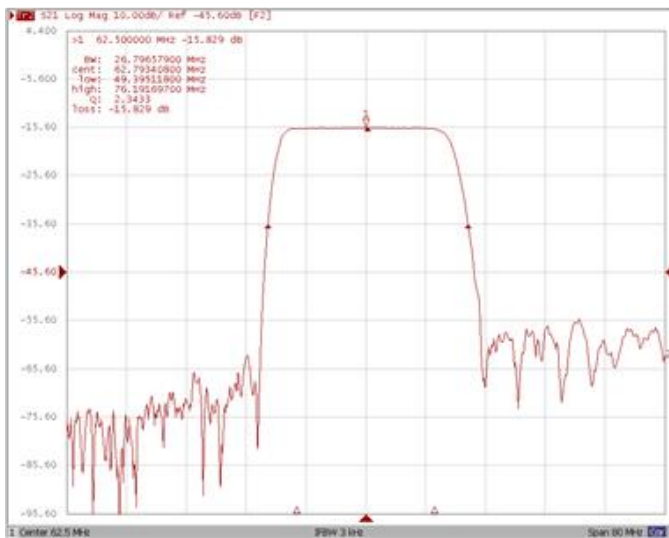
**Bandwidth at -1.0 dB**



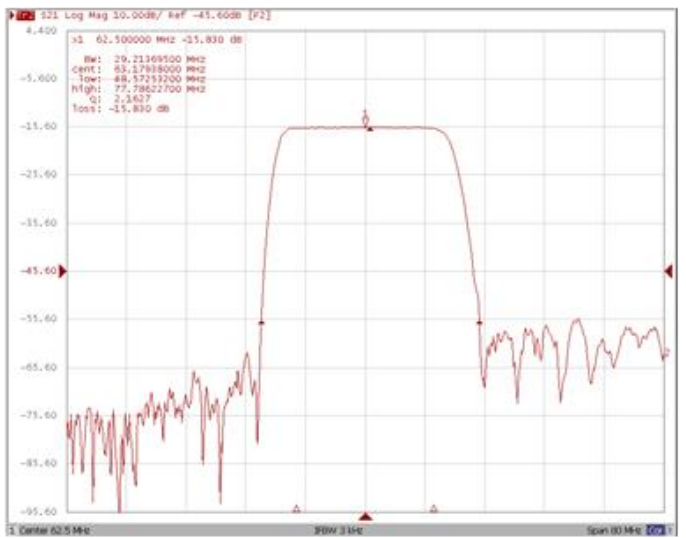
**Bandwidth at -3.0 dB**



**Bandwidth at -20.0 dB**

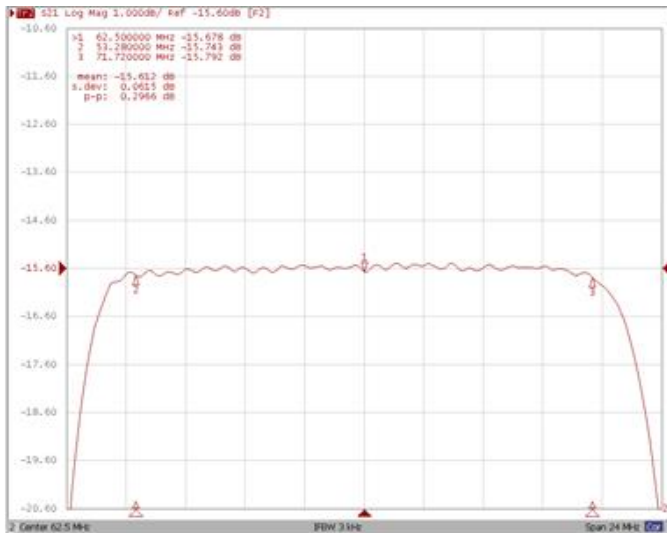


**Bandwidth at -40.0 dB**

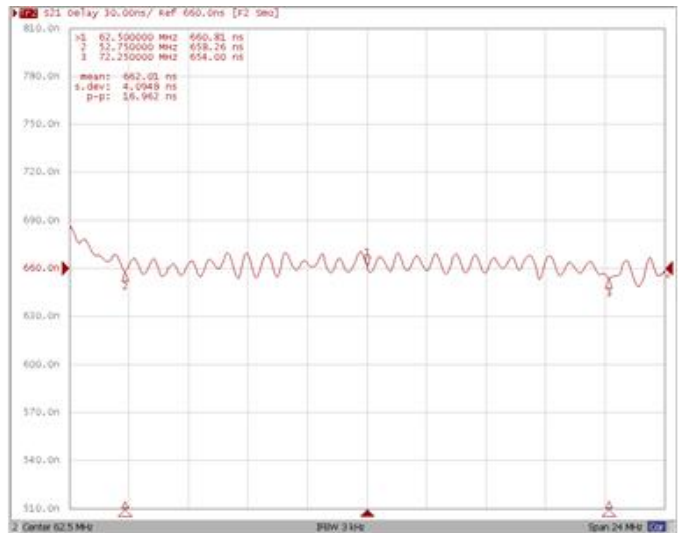


**Frequency Response**

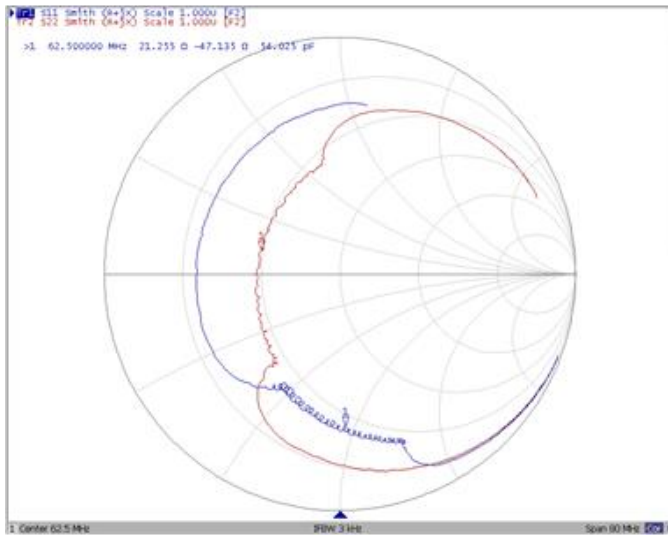
**Ripple Variation Fo ±9.22MHz**



**Group Delay Variation Fo ±9.75MHz**



**Smith Chart**



**VSWR**

