

- 70.00 MHz IF SAW Filter / 16.80 MHz Bandwidth
- Revision 0: 27 Dec. 2010

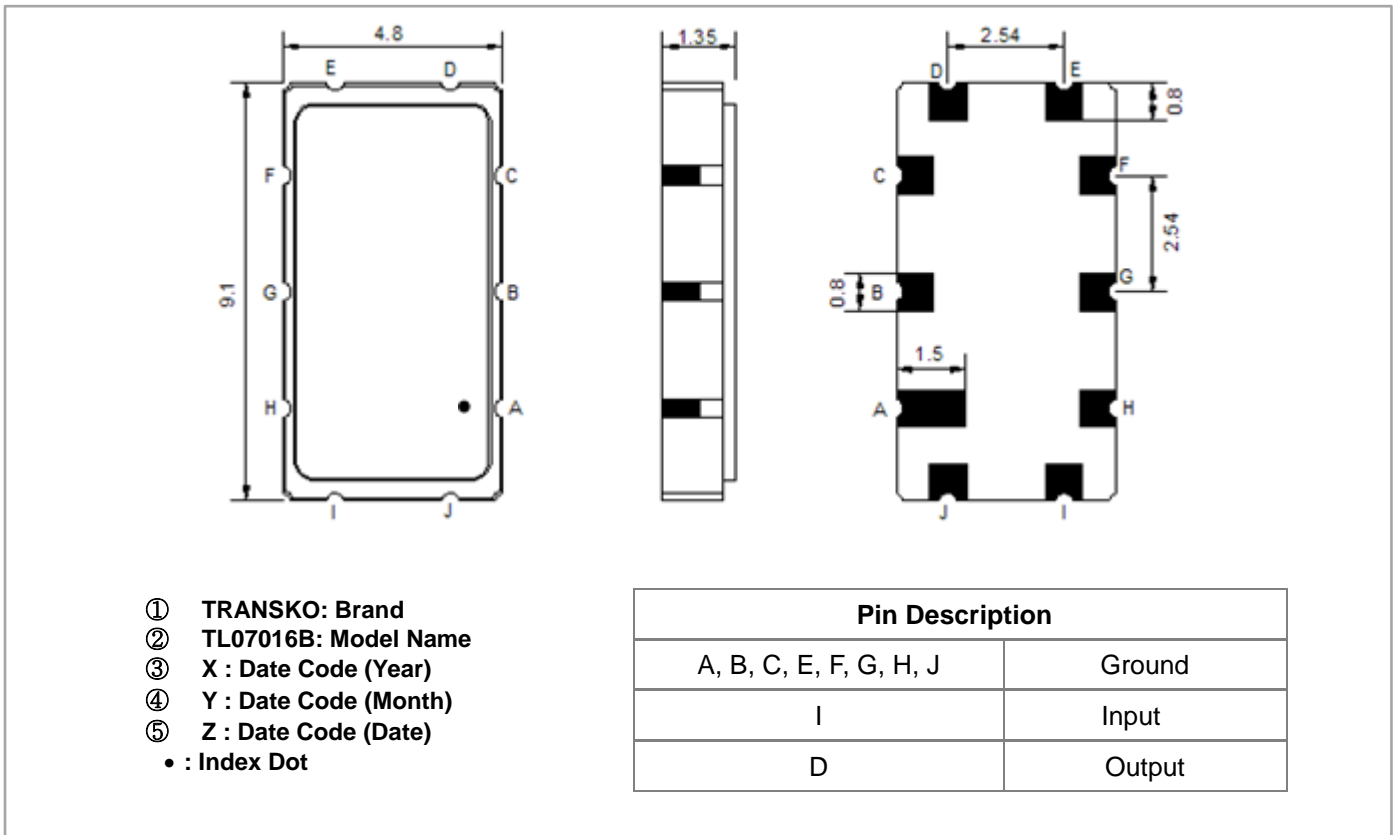
## Electrical Characteristics

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	-

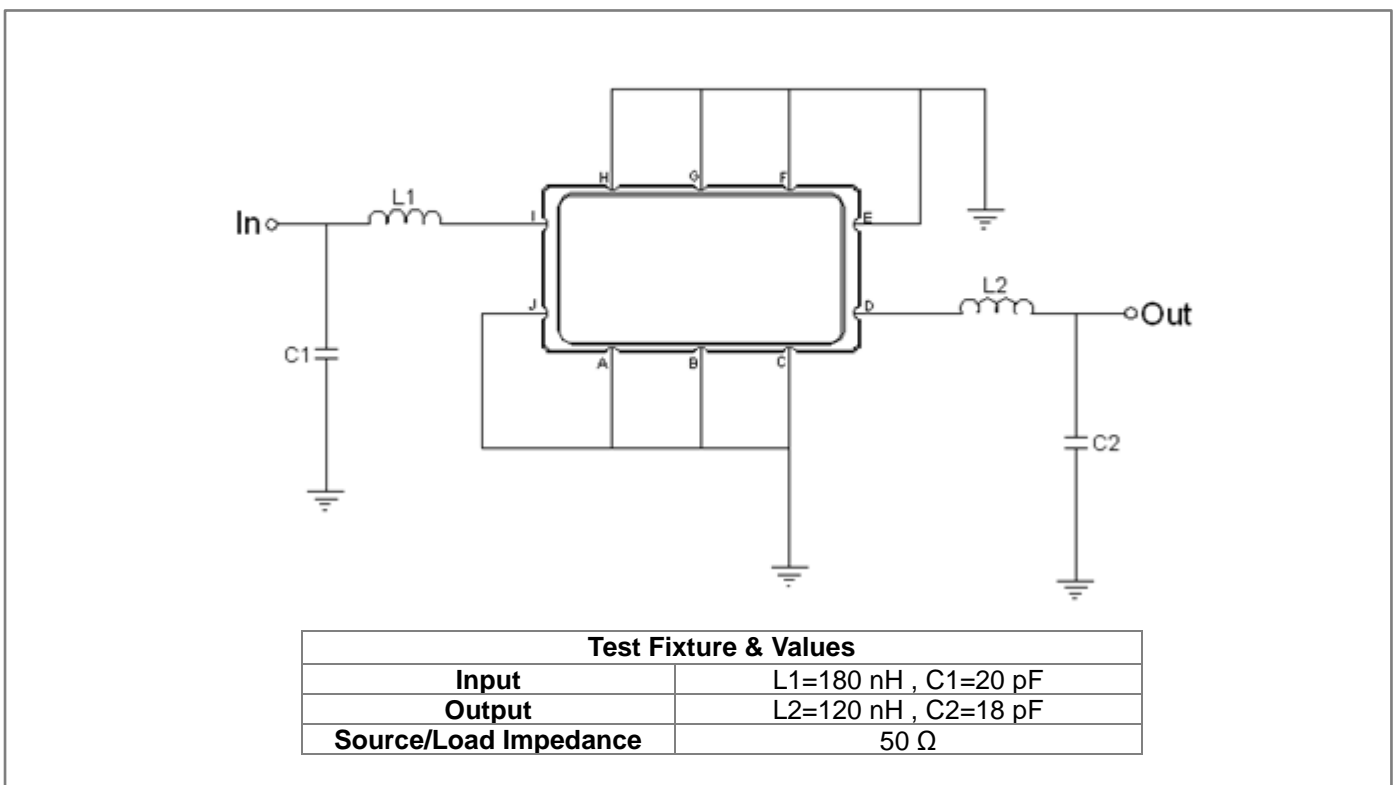
ELECTRICAL SPECIFICATION				
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	70.0	-
Insertion Loss at Fo	dB	-	13.5	15.0
Amplitude Ripple Variation at Fo ± 7.5 MHz	dB <sub>p-p</sub>	-	0.35	0.80
Group Delay Variation at Fo ± 7.5 MHz	nsec	-	21	50
Absolute Delay at Fo	µsec	-	0.77	0.80
Temperature Coefficient	ppm/°C	-	-86	-
Bandwidth at -1.0 dB	MHz	16.60	16.83	-
Bandwidth at -3.0 dB	MHz	-	17.90	-
Bandwidth at -30.0 dB	MHz	-	21.75	22.00
Bandwidth at -40.0 dB	MHz	-	22.47	-
<b>Relative Attenuation:</b>				
Lower Sidelobe	dB	40	46	-
Upper Sidelobe	dB	40	46	-

**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



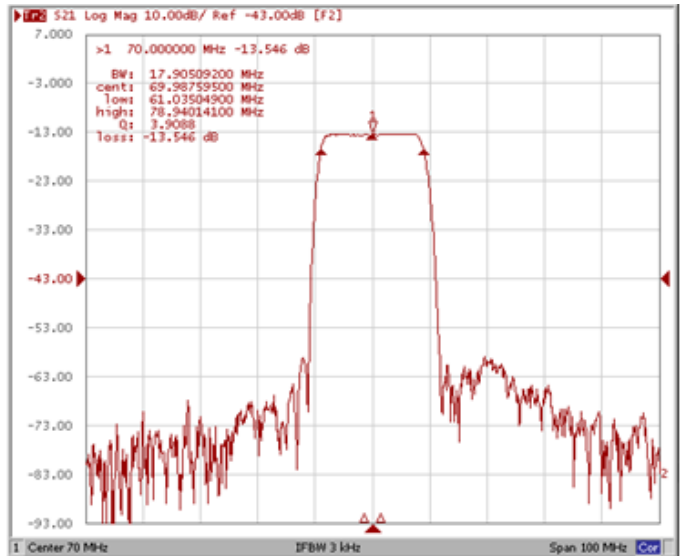
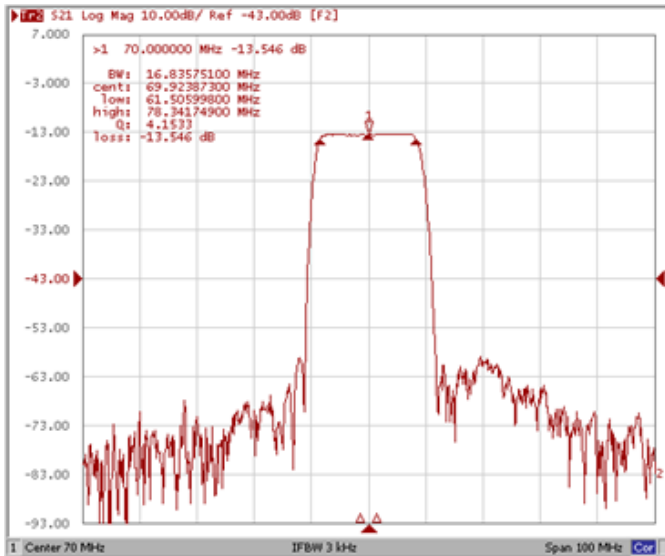
## Frequency Characteristics

### Frequency Response

\*Room Temperature : +25 °C

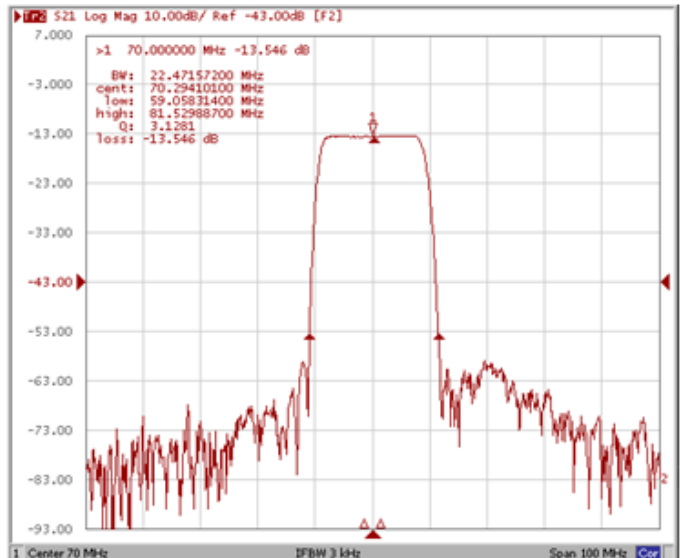
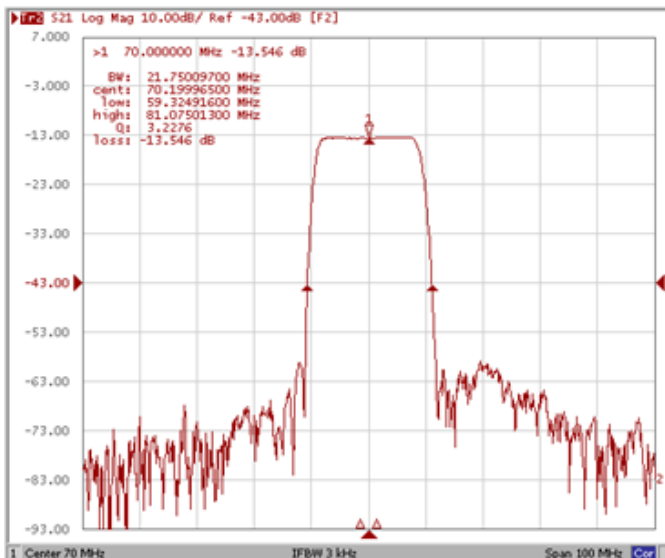
**Bandwidth at -1.0 dB**

**Bandwidth at -3.0 dB**



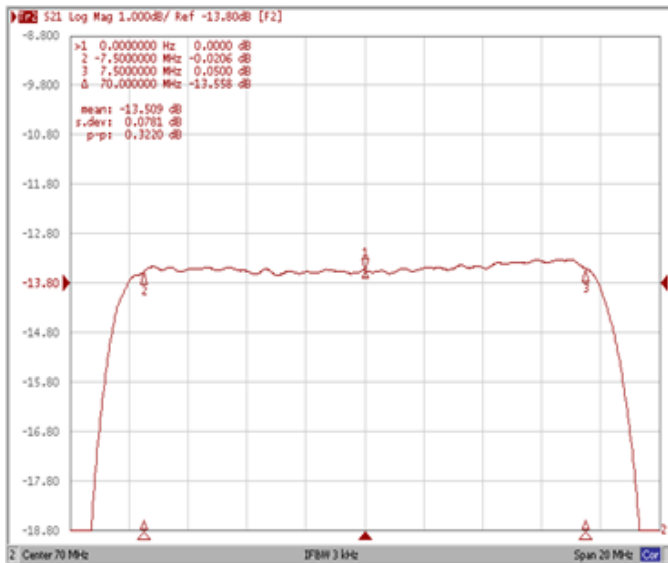
**Bandwidth at -30.0 dB**

**Bandwidth at -40.0 dB**

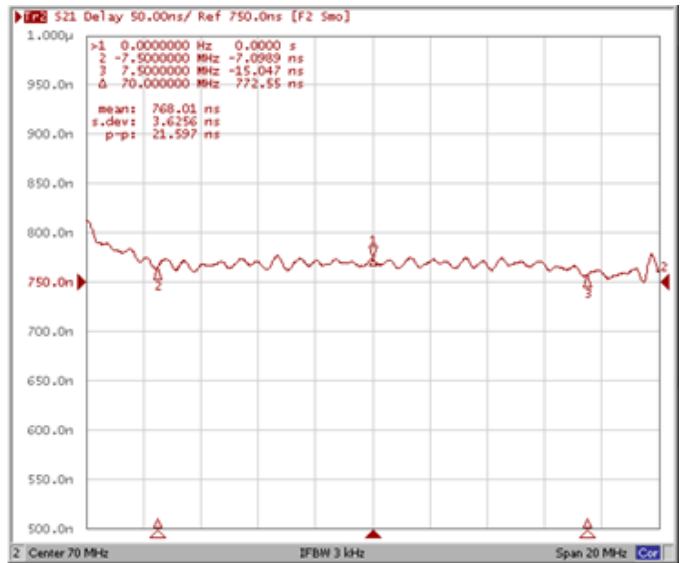


**Frequency Response**

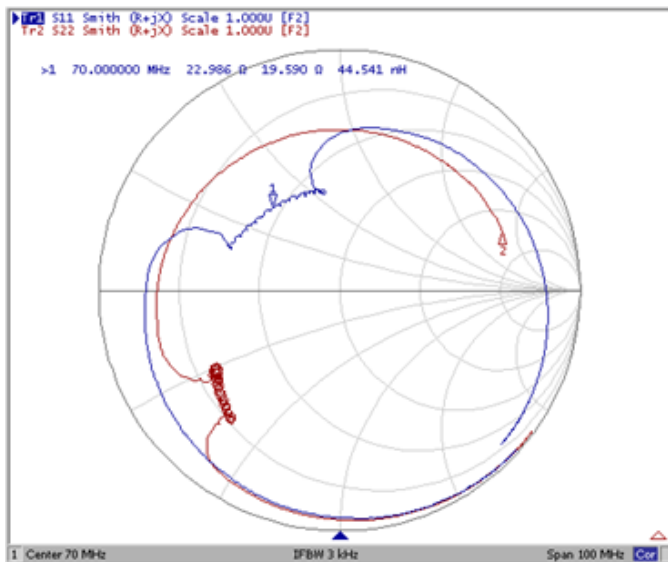
**Ripple Variation Fo±7.5MHz**



**Group Delay Variation Fo±7.5MHz**



**Smith Chart**



**SWR**

