

- 75.00 MHz IF SAW Filter / 5.42 MHz Bandwidth
- Revision 0: 07 Nov. 2008

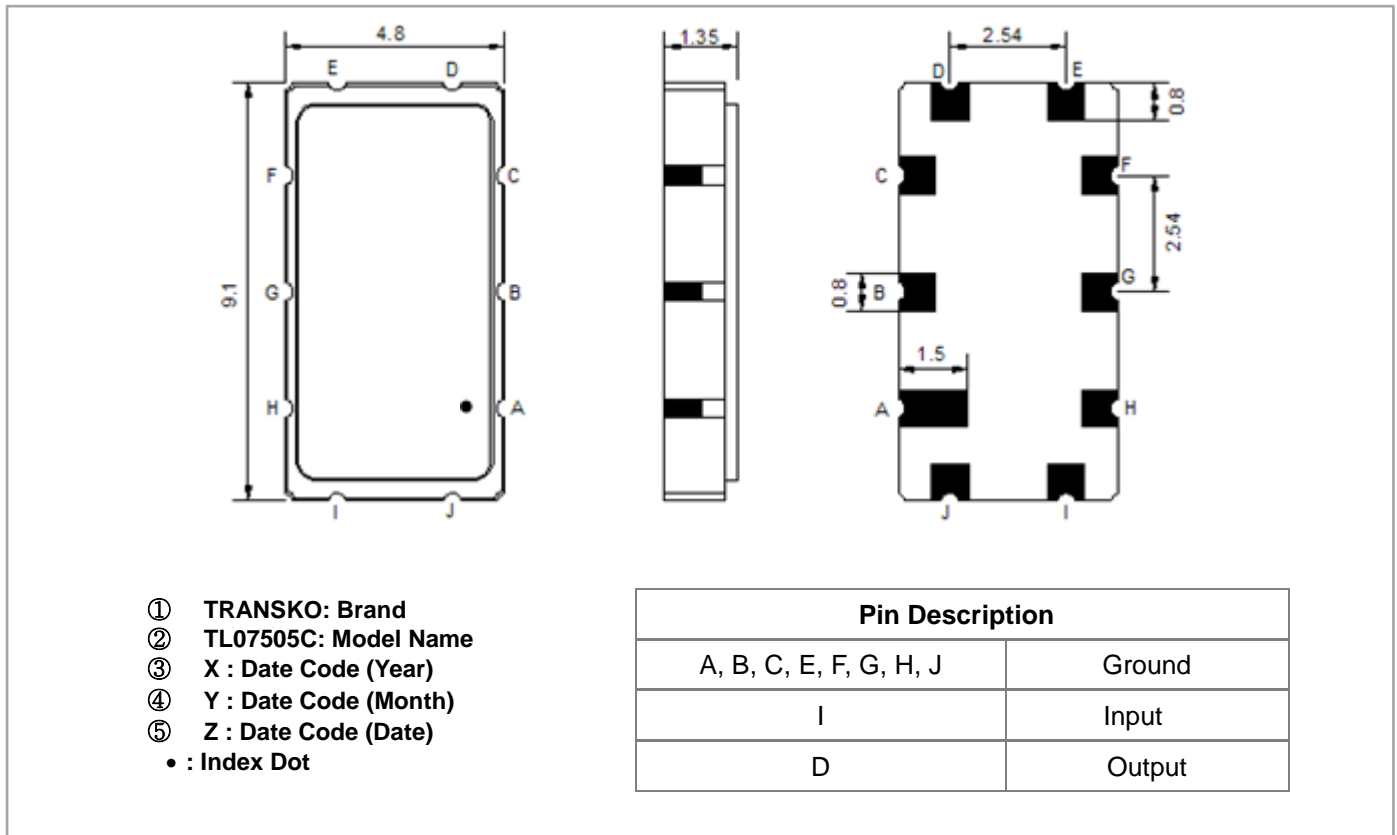
## Electrical Characteristics

MAXIMUM RATING				
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	80
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

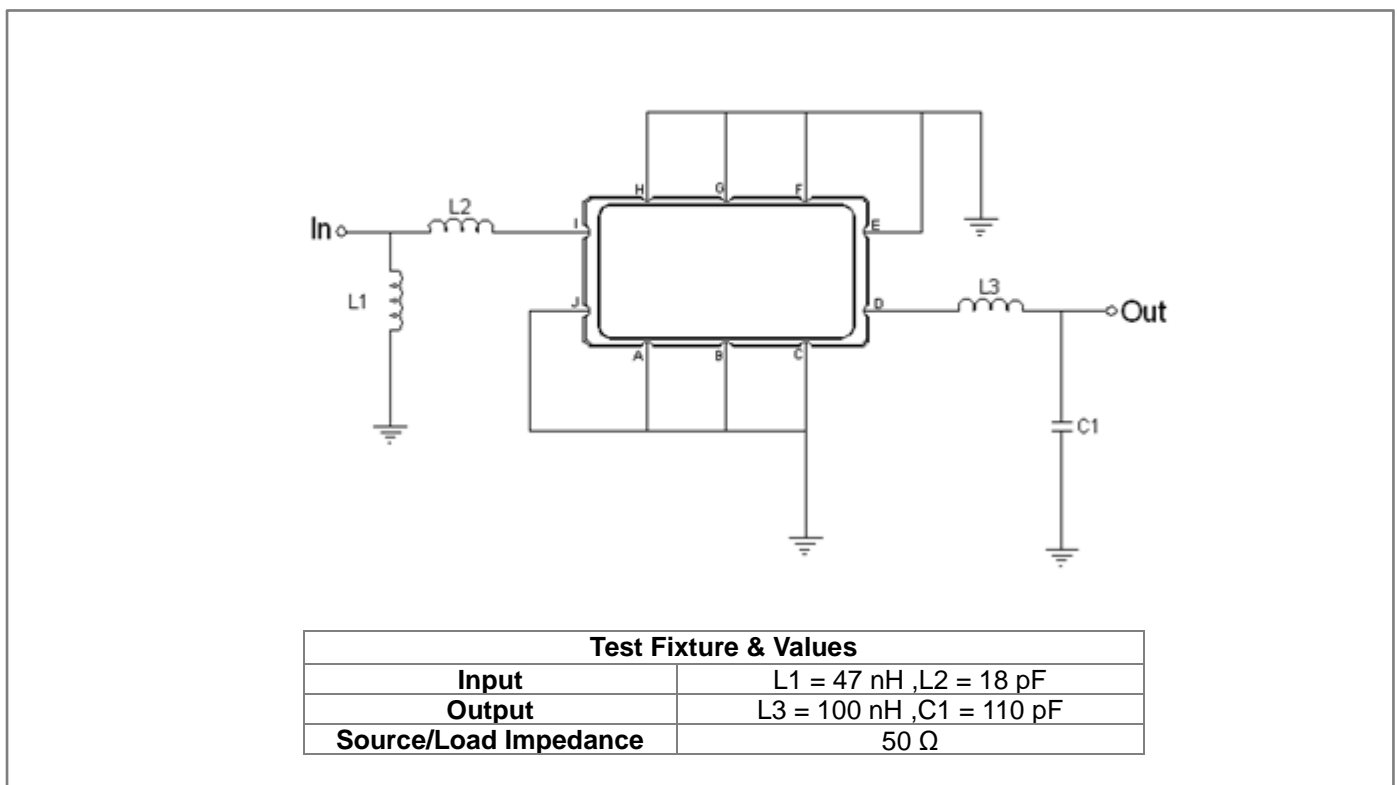
ELECTRICAL SPECIFICATION				
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	13.50	16.00
Temperature Coefficient	ppm/°C	-	-18	-
Amplitude Ripple Variation (Fo±2.2MHz)	dB <sub>p-p</sub>	-	0.30	0.70
Group Delay Variation (Fo±2.2MHz)	nsec	-	35	80
Absolute Delay at Fo	µsec	-	1.07	-
Bandwidth at -1.0 dB	MHz	-	5.42	-
Bandwidth at -3.0 dB	MHz	-	6.09	-
Bandwidth at -40.0 dB	MHz	-	8.70	-
Input VSWR at Fo	dB	-	2.1	-
Output VSWR at Fo	dB	-	1.2	-
Relative Attenuation:				
Lower Sidelobe	dB	40	45	
Upper Sidelobe	dB	40	45	

**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



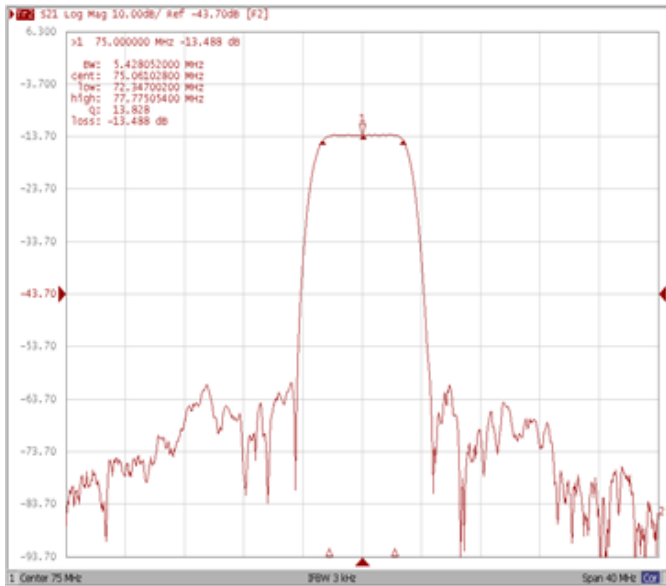
## Testing Environment



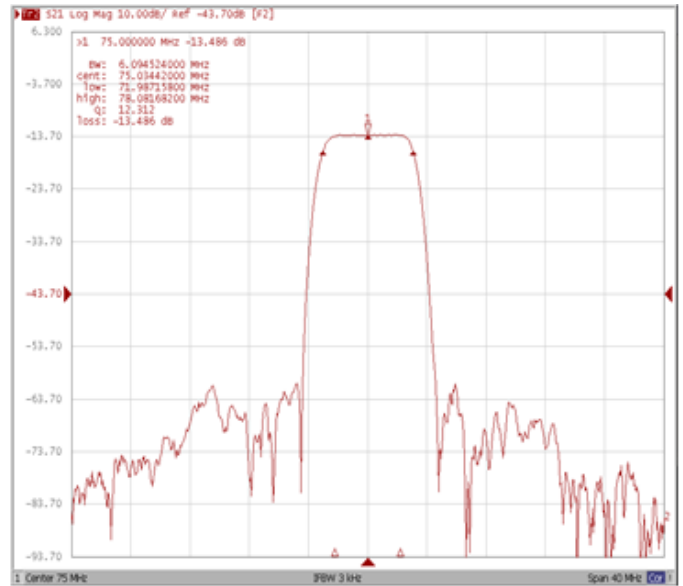
## Frequency Characteristics

### Frequency Response

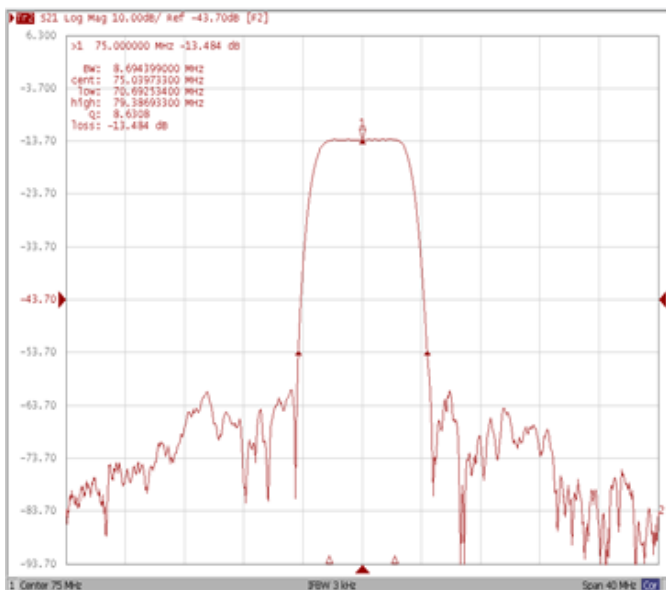
**Bandwidth at -1.0 dB**



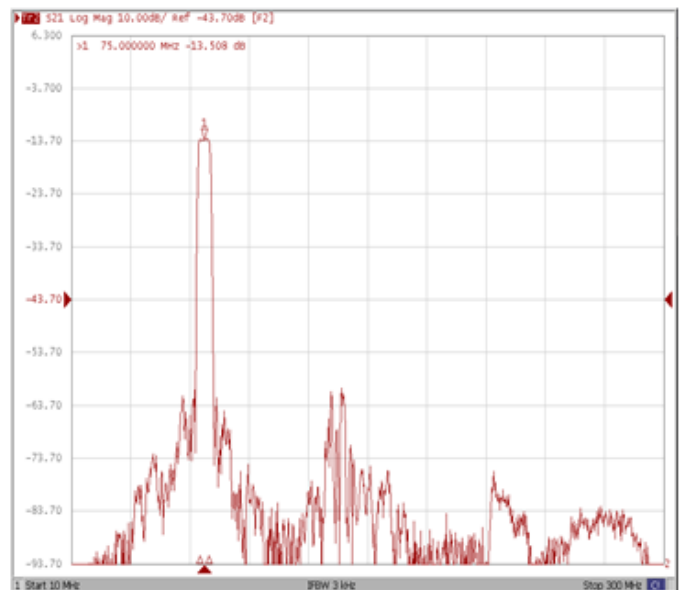
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**



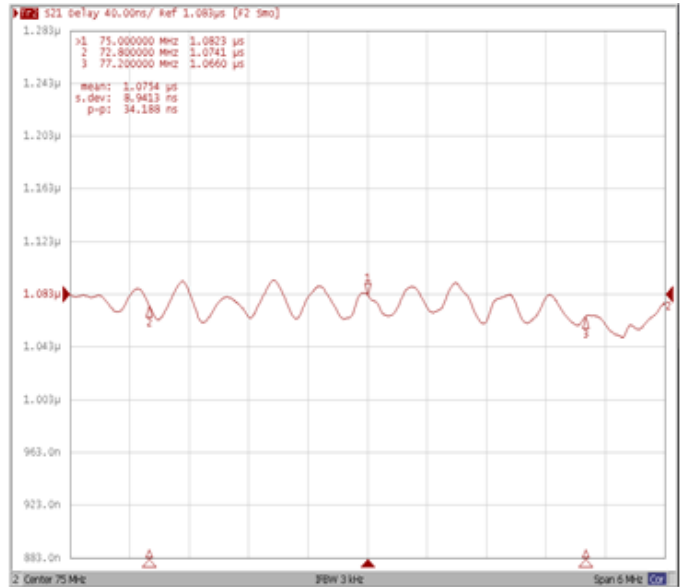
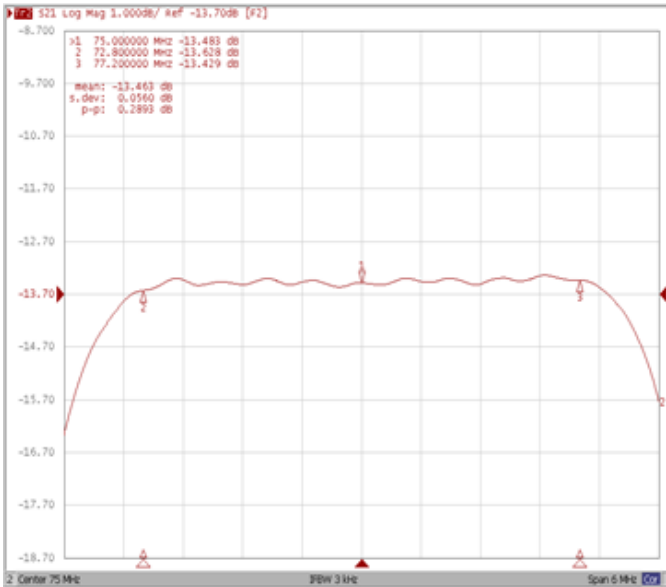
**WIDE**



**Frequency Response**

**Ripple Variation Fo±2.2MHz**

**Group Delay Variation Fo±2.2MHz**



**Smith Chart**

**VSWR**

