

- 110.5920 MHz IF SAW Bandpass Filter
- Revision 1: 06 Jan. 2012

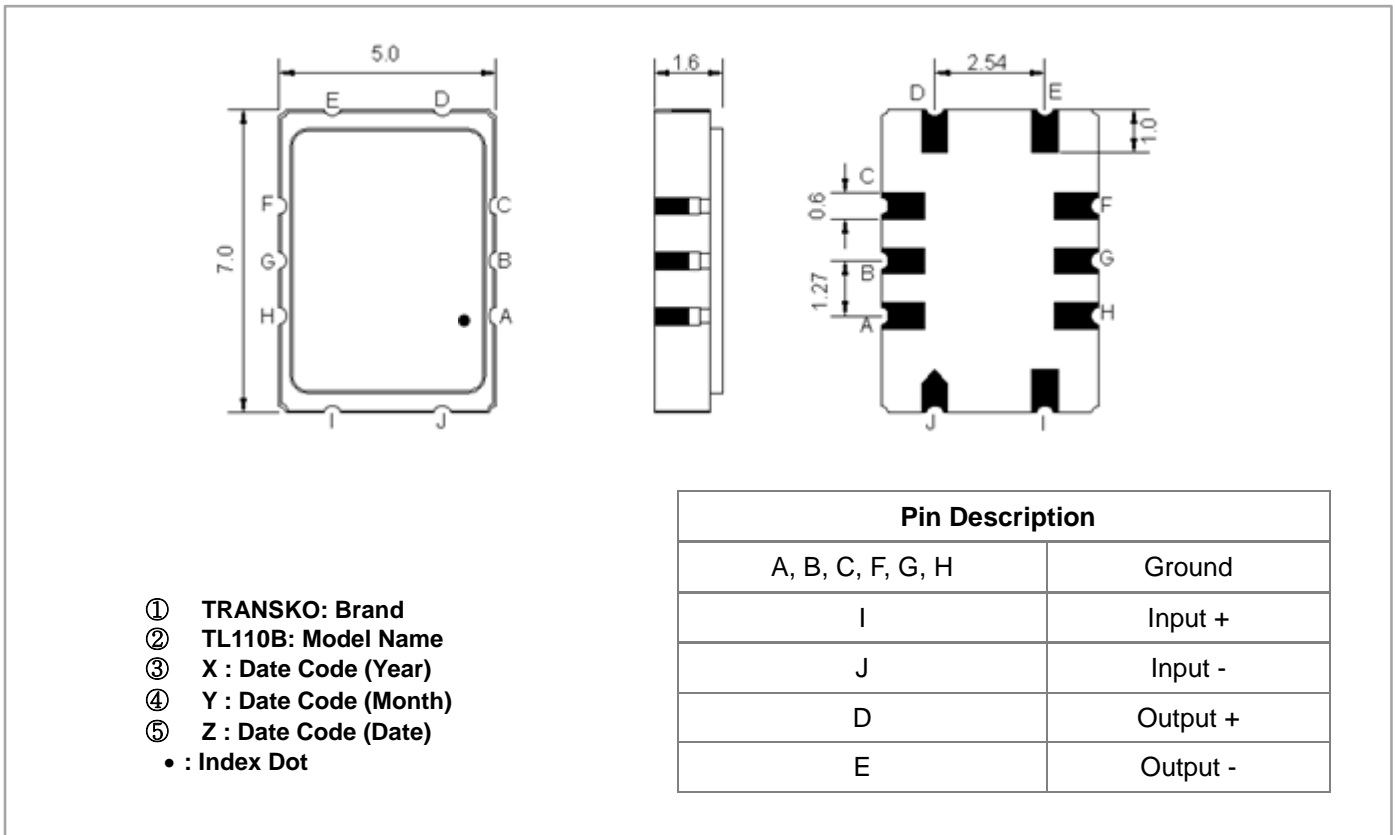
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-20	-	85
Storage Temperature Range	°C	-40	-	105
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	20
Source Impedance (Balanced) <sup>(1)</sup>	Ω	-	200	-
Load Impedance (Balanced) <sup>(1)</sup>	Ω	-	1000	-
Package type & size	S			
Length x Width	mm <sup>2</sup>	-	7.0 x 5.0	-
Height	mm	-	-	1.8

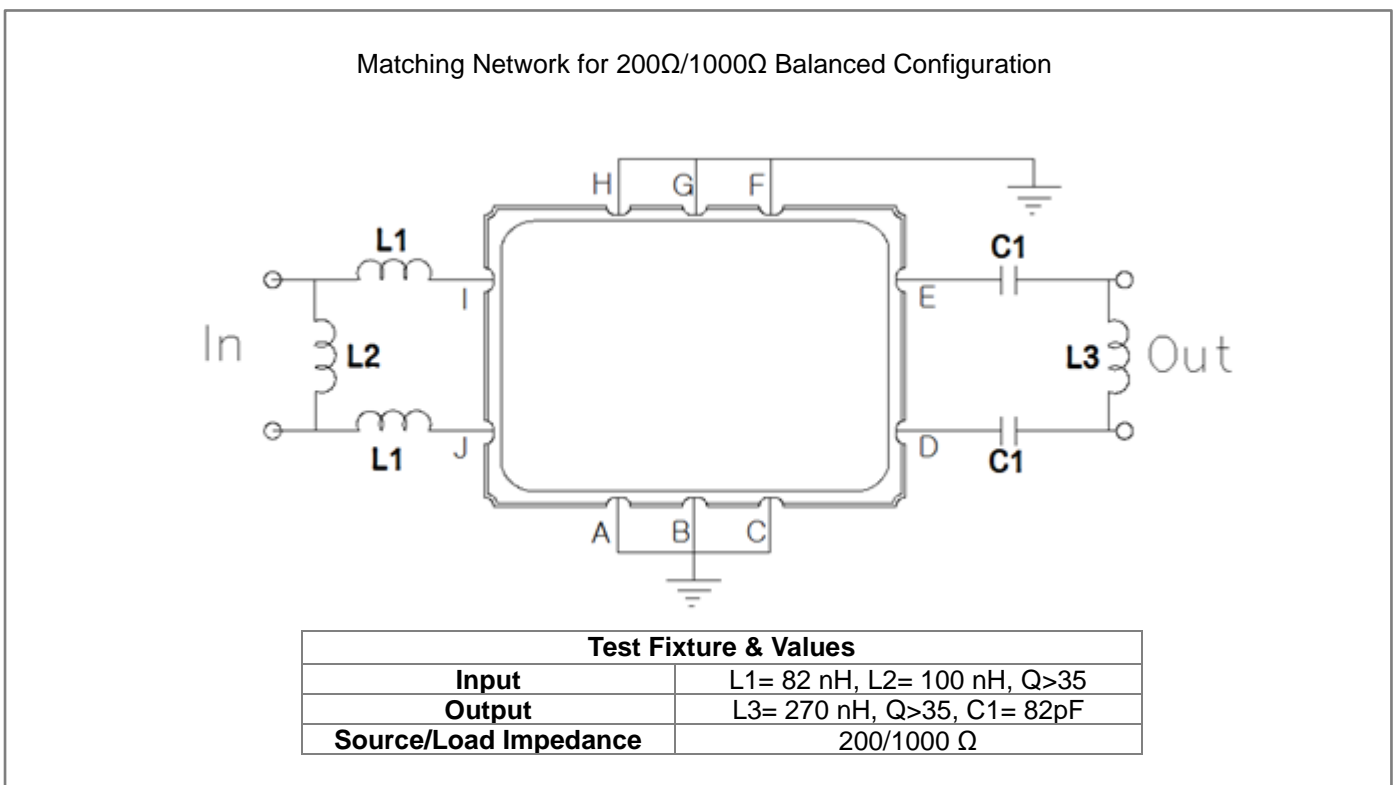
ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	110.592	-
Insertion Loss at Fo	dB	-	10.0	11.5
Amplitude Ripple (Fo ± 0.3 MHz)	dB <sub>p-p</sub>	-	0.90	1.5
Phase Linearity (Fo ± 0.615 MHz)	deg	-	3.5	4.5
Phase Linearity (Fo ± 0.620MHz)	deg	-	3.5	4.5
Temperature Coefficient	ppm/°C	-	-0.03	-
Bandwidth at -5.0 dB	MHz	±0.630	±0.660	-
Bandwidth at -33.0 dB	MHz	-	±0.890	-
Template on the amplitude, reference is loss at Fc				
Attenuation at Fc ± 800kHz	dB	10	15	-
Attenuation at Fc ± 812.5kHz	dB	12	17	-
Attenuation at Fc ± 2MHz	dB	35	37	-
Attenuation at Fc ± 9MHz	dB	45	48	-

**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

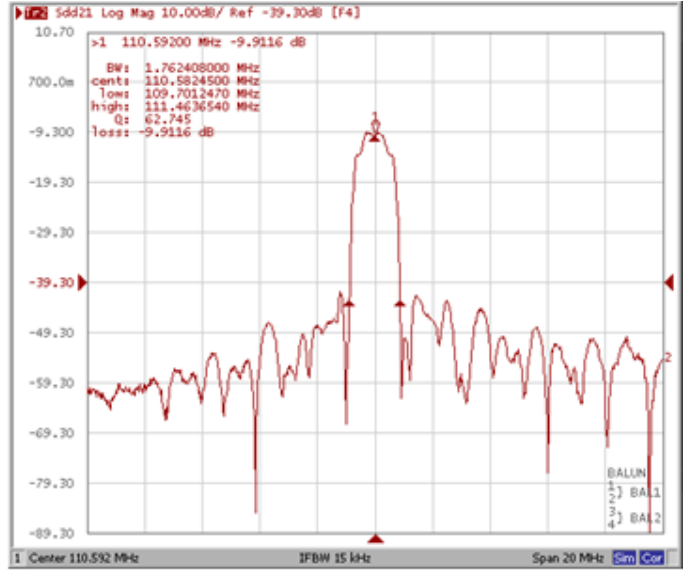
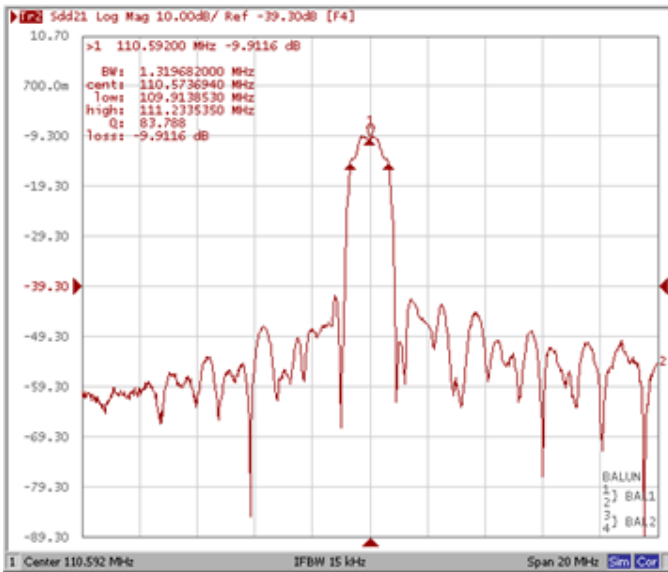


## Frequency Characteristics

### Frequency Response

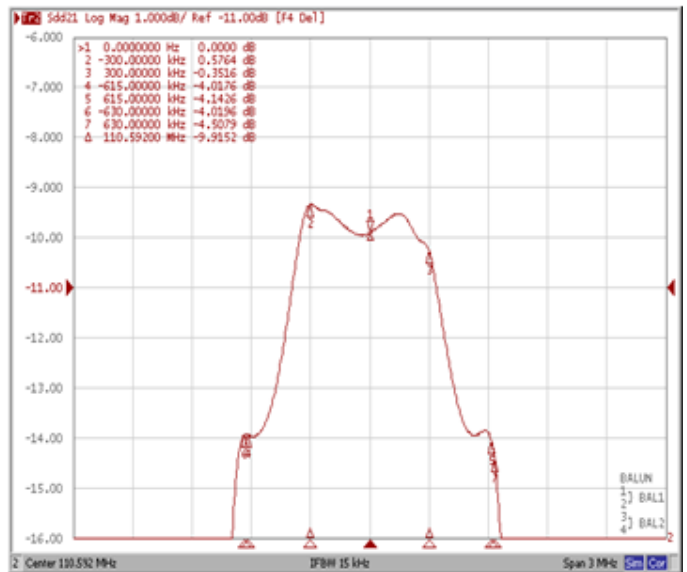
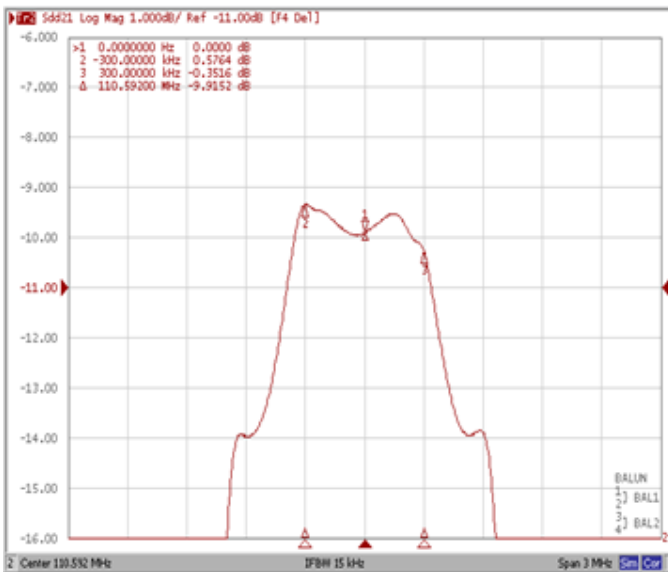
**Bandwidth at -5.0 dB**

**Bandwidth at -33.0 dB**



**Amplitude Ripple ( $F_0 \pm 0.3\text{MHz}$ )**

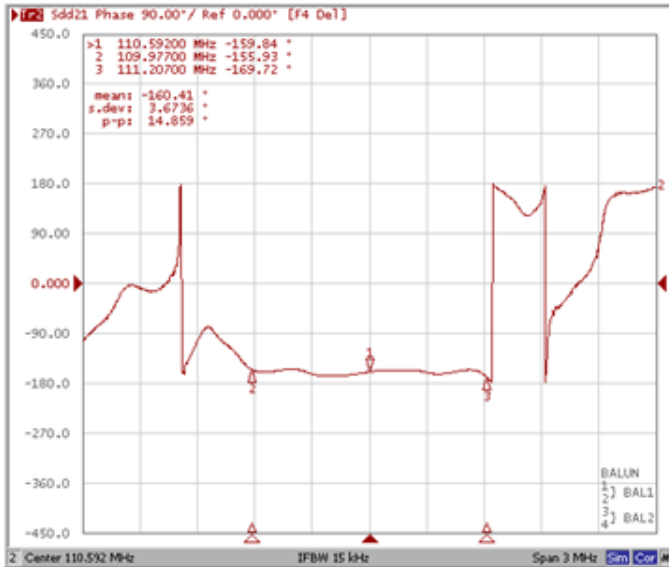
**Attenuation**



## Frequency Response

**Phase Linearity (Fo±0.615MHz)**

**Phase Linearity (Fo±0.620MHz)**



**Attenuation**

**Smith Chart**

