

- 95.00 MHz IF SAW Filter / 11.63 MHz Bandwidth
- Revision 0: 22 Aug. 2011

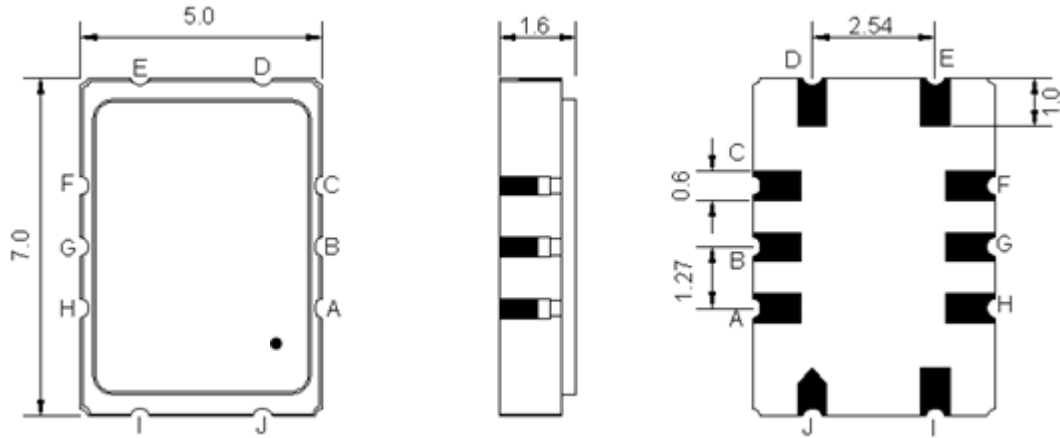
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation 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	S			
Length x Width	mm <sup>2</sup>	-	7.0 x 5.0	-
Height	mm	-	-	1.6

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	95.00	-
Insertion Loss at Fo	dB	-	11.00	13.00
Group Delay Variation (Fo±4.42MHz)	nsec	-	35	70
Absolute Delay at Fo	usec	-	0.64	0.90
Passband Ripple Variation(Fo±4.42MHz)	dB	-	0.35	1.00
Bandwidth at -1dB	MHz	11.30	11.63	-
Bandwidth at -3dB	MHz	-	12.93	-
Bandwidth at -40dB	MHz	-	17.80	18.10
Out Band Rejection (Fo±5.0MHz)	dB	20	42	-
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.

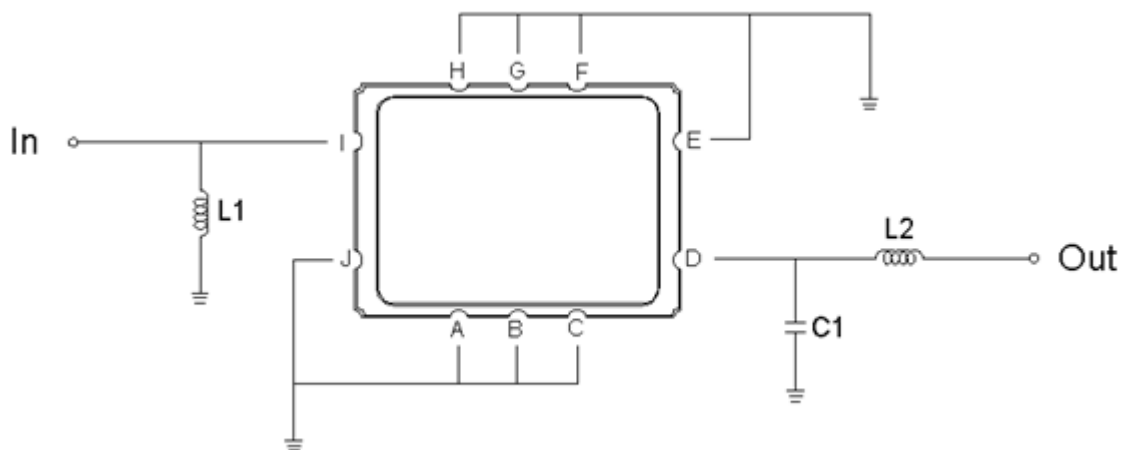
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL09511A:** Model Name
- ③ **X :** Date Code (Year)
- ④ **Y :** Date Code (Month)
- ⑤ **Z :** Date Code (Date)
- : Index Dot

Pin Description	
A, B, C, E, F, G, H, J	Ground
I	Input
D	Output

## Testing Environment



Test Fixture & Values	
Input	L1 = 120 nH
Output	L2 = 56 nH, C1 = 11pF
Source/Load Impedance	50 Ω

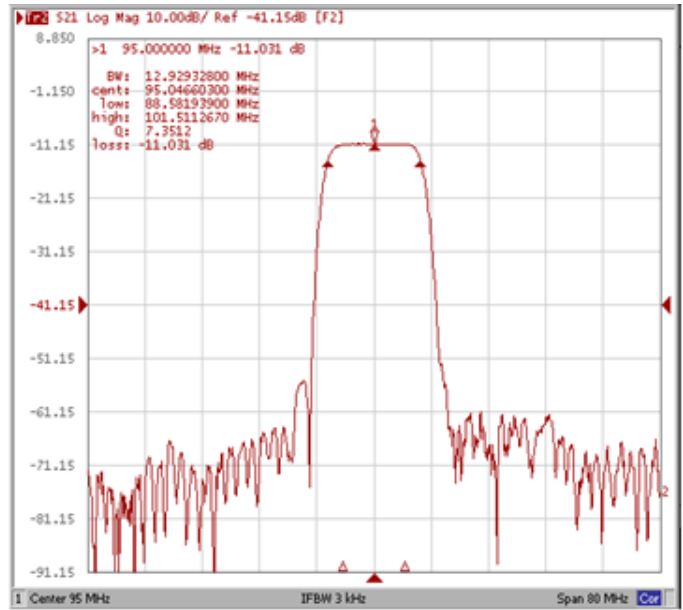
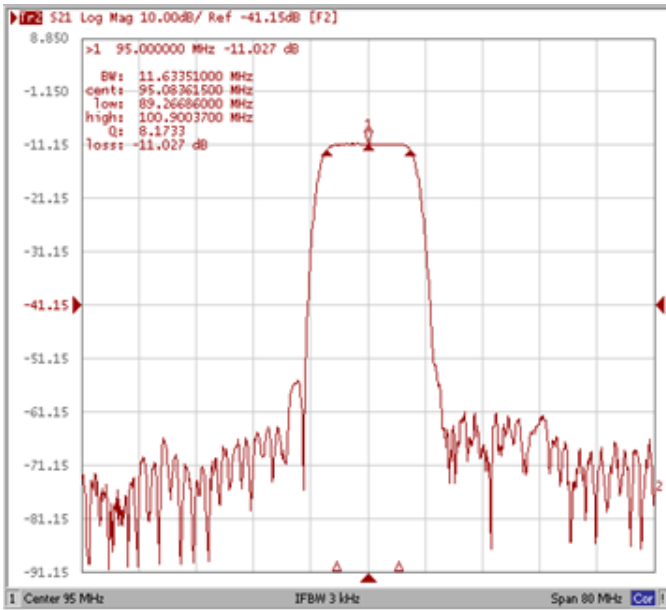
## Frequency Characteristics

### Frequency Response

Operating Temperature: +25°C

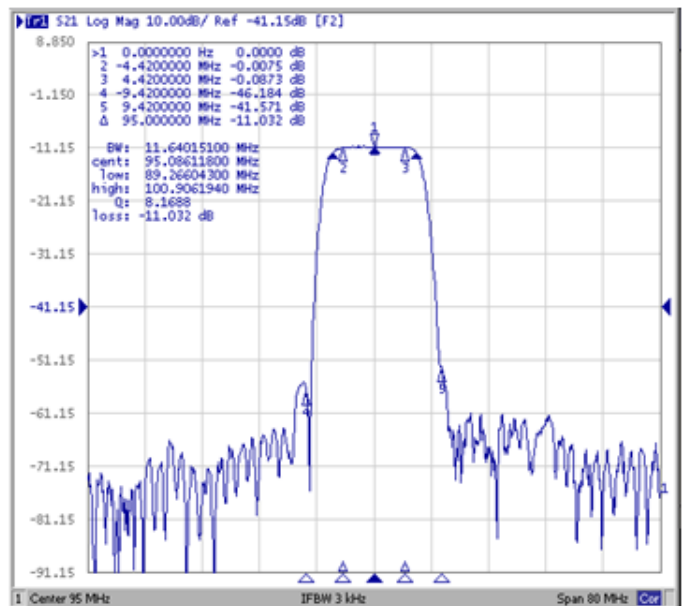
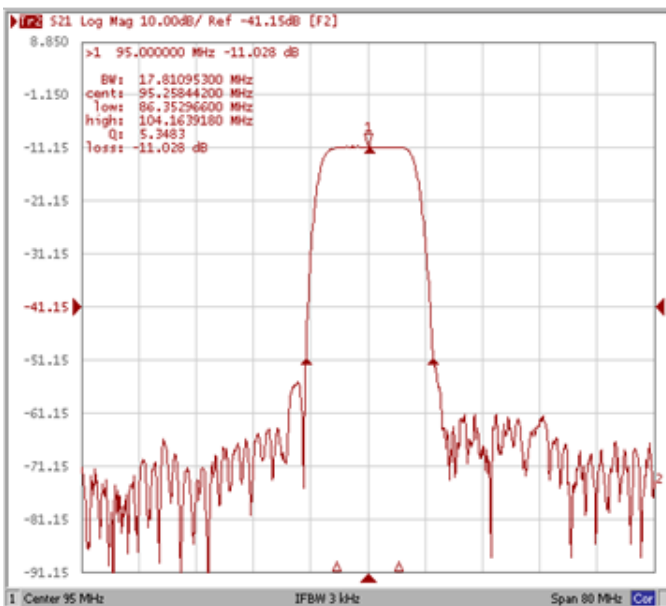
#### Bandwidth at -1.0 dB

#### Bandwidth at -3.0 dB



#### Bandwidth at -40.0 dB

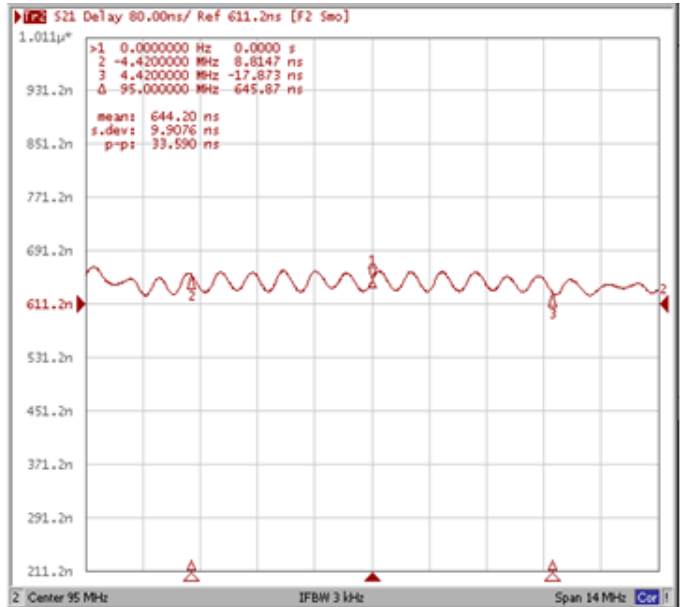
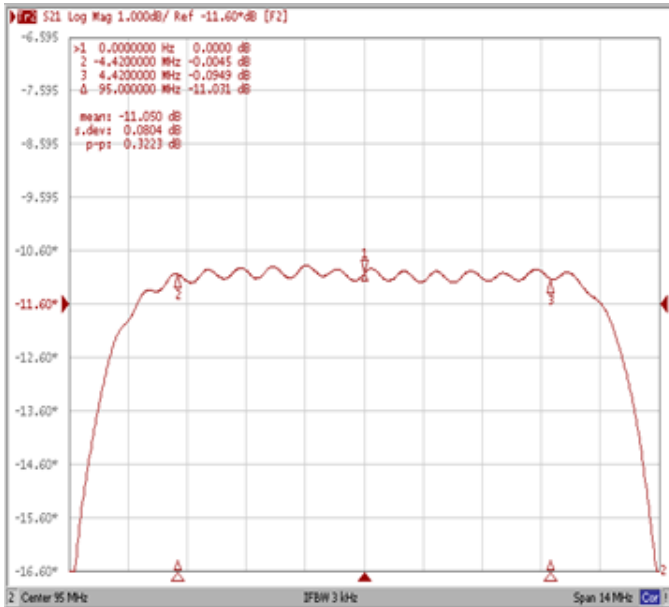
#### Out Band Rejection Fo±5.0MHz



**Frequency Response**

**Ripple Variation Fo±4.42MHz**

**Group Delay Variation Fo±4.42MHz**



**Smith Chart**

**VSWR**

