

- 115.0 MHz IF SAW Filter / 16.20 MHz Bandwidth
- Revision 0: 29. Oct. 2009

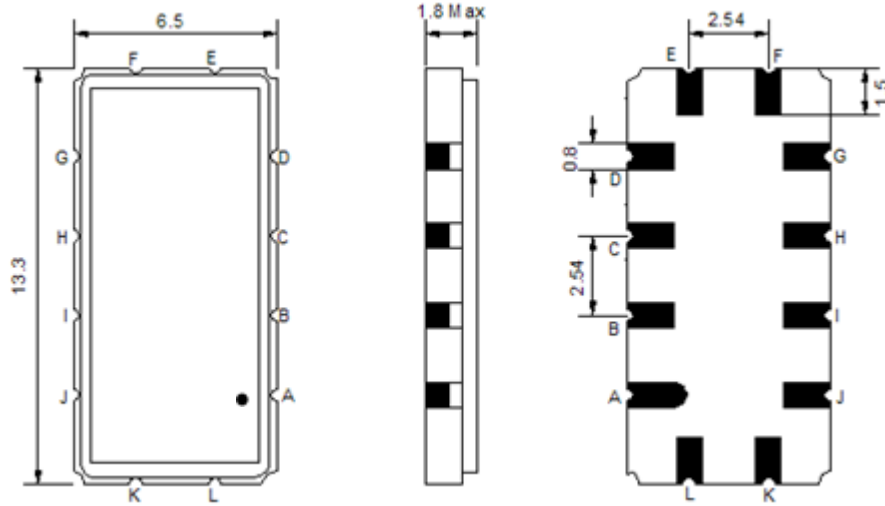
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-5	-	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	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	115.0	-
Insertion Loss at Fo	dB	-	20.5	23.0
Group Delay Variation at Fo ± 7.50 MHz	nsec	-	34	70
Absolute Delay at Fo	usec	-	1.63	-
Passband Ripple Variation at Fo ± 7.50 MHz	dB	-	0.53	1.0
Bandwidth at -1dB	MHz	16.05	16.20	-
Bandwidth at -3dB	MHz	-	16.67	-
Bandwidth at -40dB	MHz	-	18.70	18.85
Ultimate Rejection	dB	50	58	-
Temperature Coefficient	ppm/°C	-	-72	-

**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.

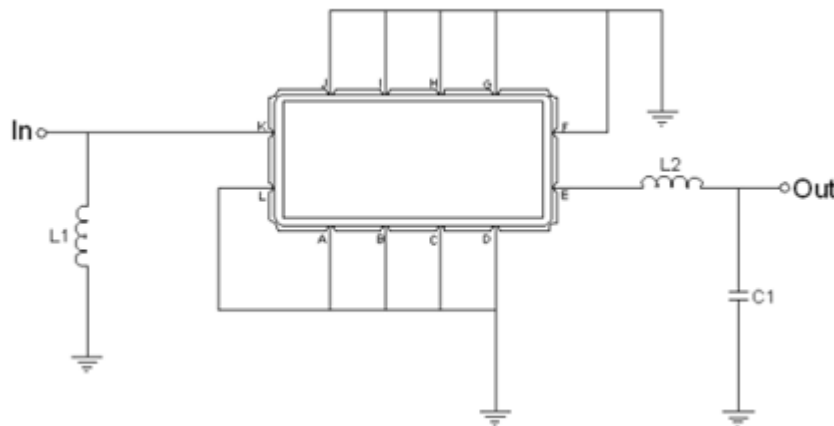
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA11516B:** Model Name
- ③ **X :** Date Code (Year)
- ④ **Y :** Date Code (Month)
- ⑤ **Z :** Date Code (Date)
- : Index Dot

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

## Testing Environment



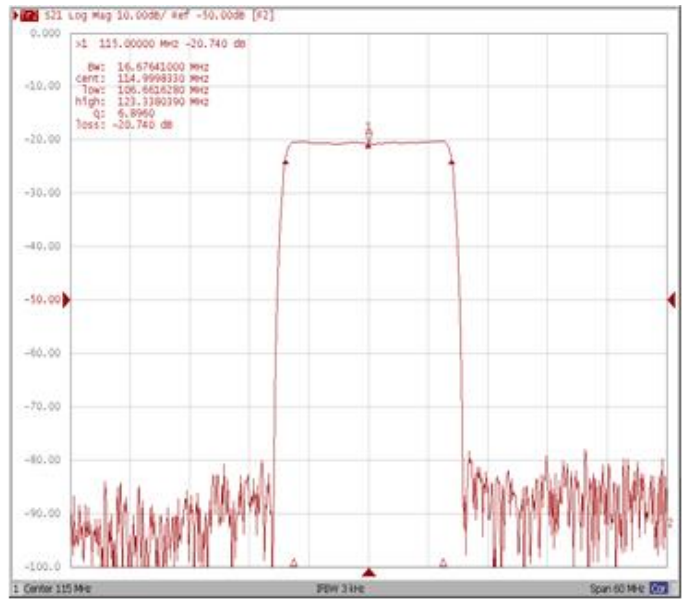
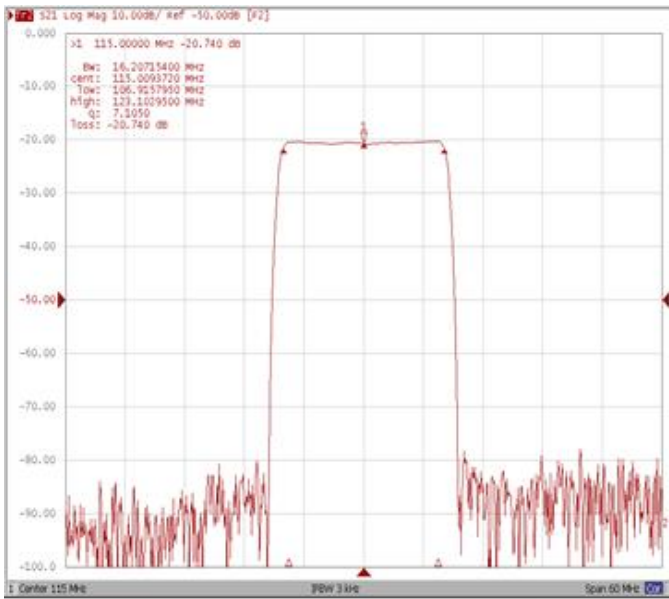
Test Fixture & Values	
Input	L1 = 120 nH
Output	L2 = 56 nH, C1 = 5 pF
Source/Load Impedance	50 $\Omega$

## Frequency Characteristics

### Frequency Response

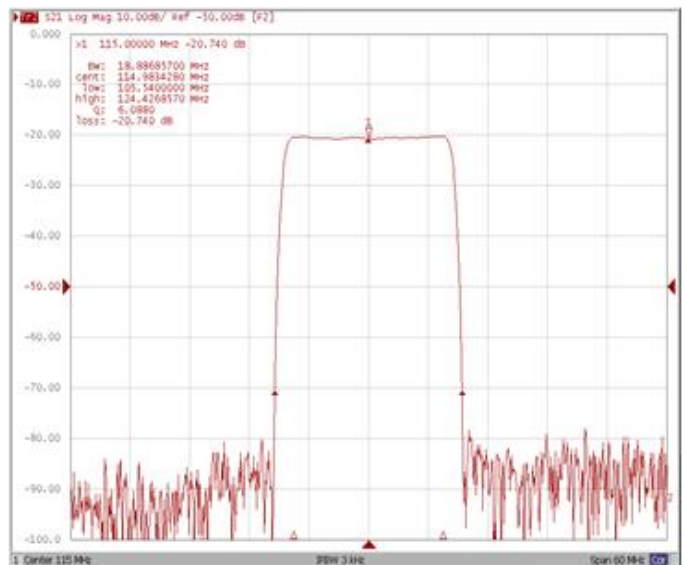
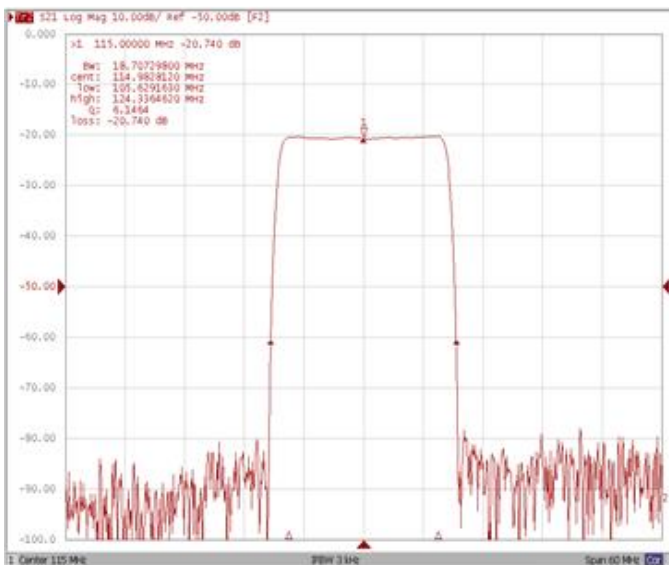
**Bandwidth at -1.0 dB**

**Bandwidth at -3.0 dB**



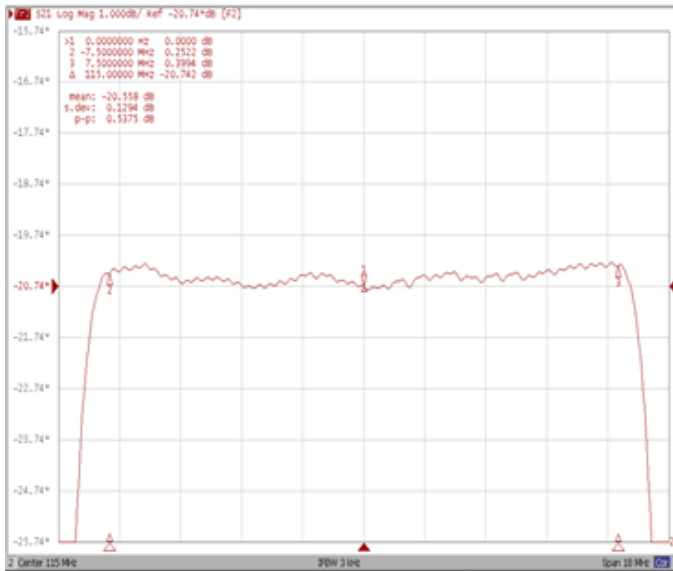
**Bandwidth at -40.0 dB**

**Bandwidth at -50.0 dB**

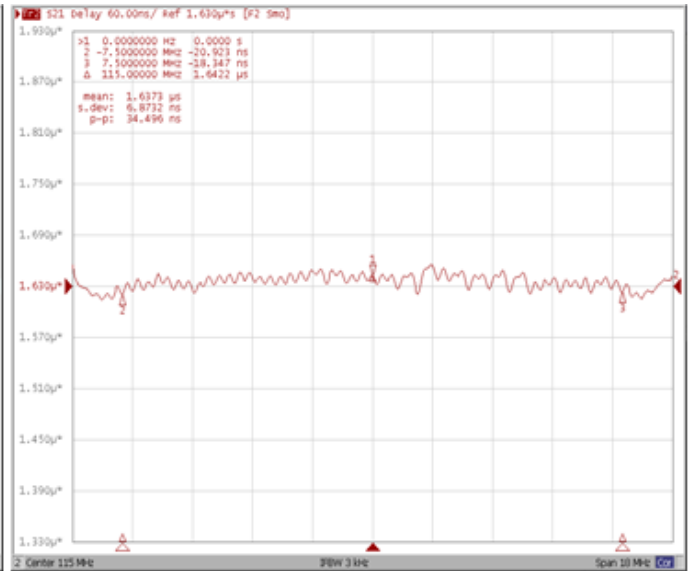


**Frequency Response**

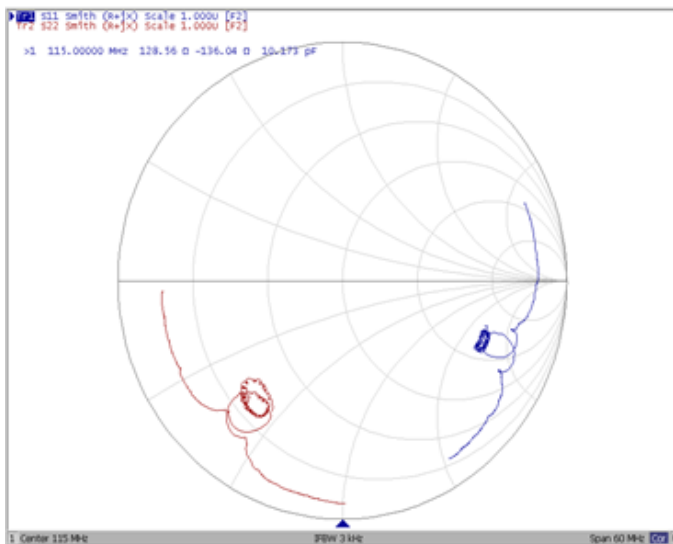
**Ripple Variation Fo±7.50 MHz**



**Group Delay Variation Fo±7.50 MHz**



**Smith Chart**



**VSWR**

