

- 110.43 MHz IF SAW Filter / 3.90 MHz Bandwidth
- Revision 0: 28. Jun. 2008

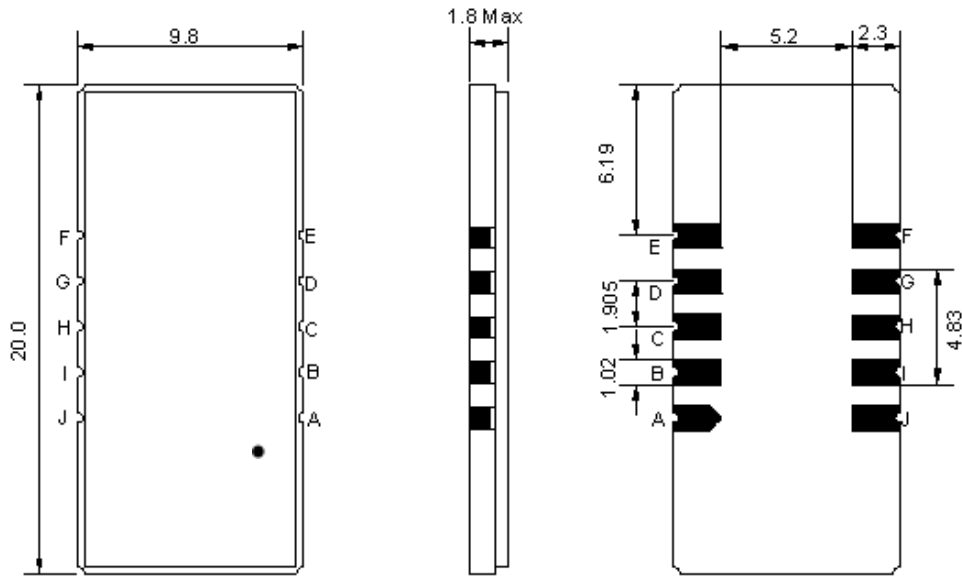
## Electrical Characteristics

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	D1			
Length x Width	mm <sup>2</sup>	-	20.0 x 9.8	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	110.33	110.43	110.53
Insertion Loss at Fo	dB	-	20.00	21.00
Group Delay Variation	ns	-	90	200
Absolute Delay at Fo	us	-	1.64	-
Passband Ripple Variation	dB	-	0.40	0.95
Bandwidth at -1dB	MHz	-	3.90	-
Bandwidth at -3dB	MHz	4.10	4.25	-
Bandwidth at -50dB	MHz	-	5.78	6.00
Ultimate Rejection	dB	50	53	-
Temperature coefficient	ppm/°C	-	-20	-

**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.

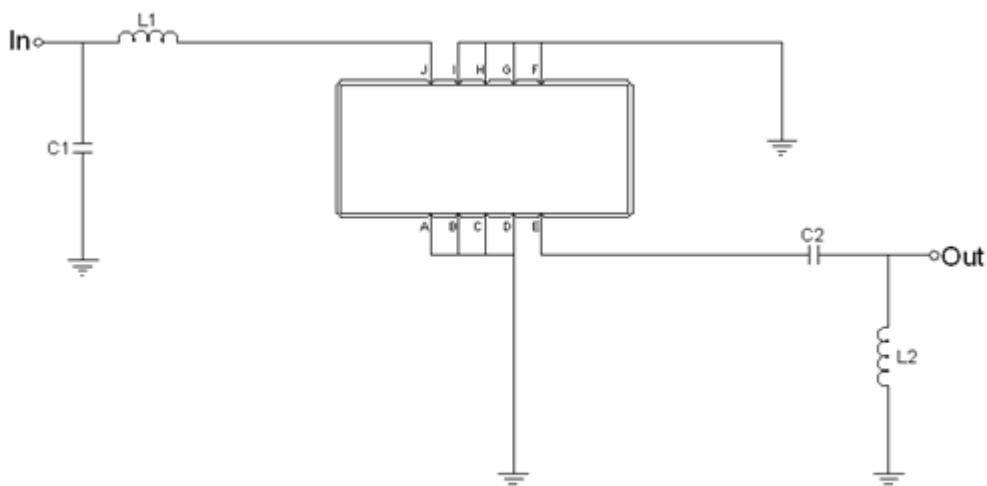
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA11003A:** 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	Ground
J	Input
E	Output

## Testing Environment



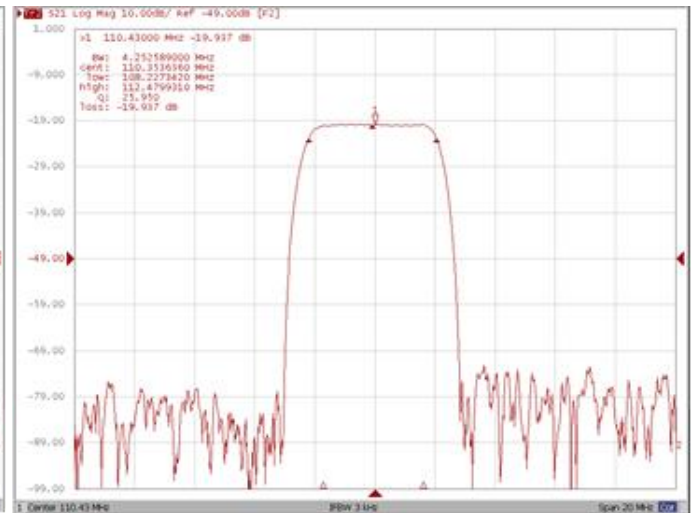
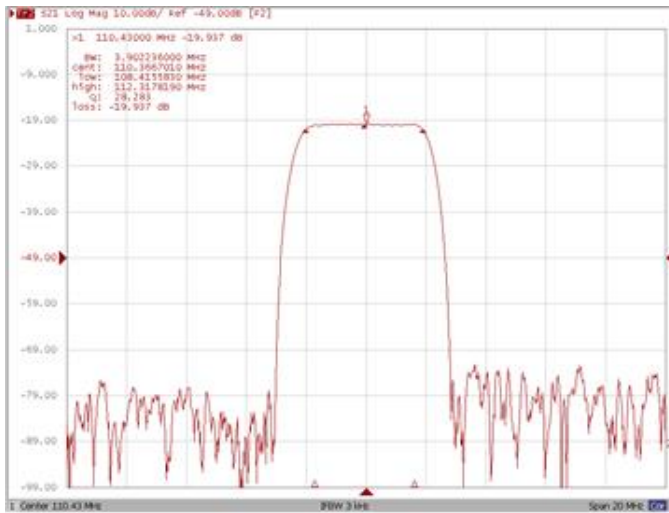
Test Fixture & Values	
<b>Input</b>	L1=18nH, C1=110pF
<b>Output</b>	L2=47nH, C2=110pF
<b>Source/Load Impedance</b>	50 Ω

## Frequency Characteristics

### Frequency Response

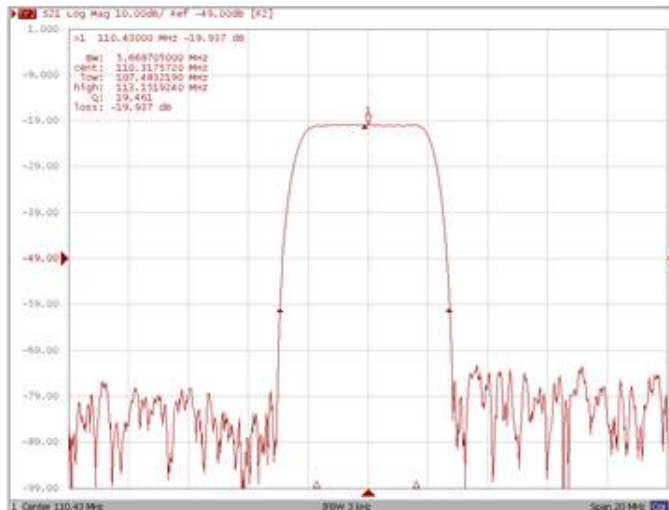
**Bandwidth at -1.0 dB**

**Bandwidth at -3.0 dB**



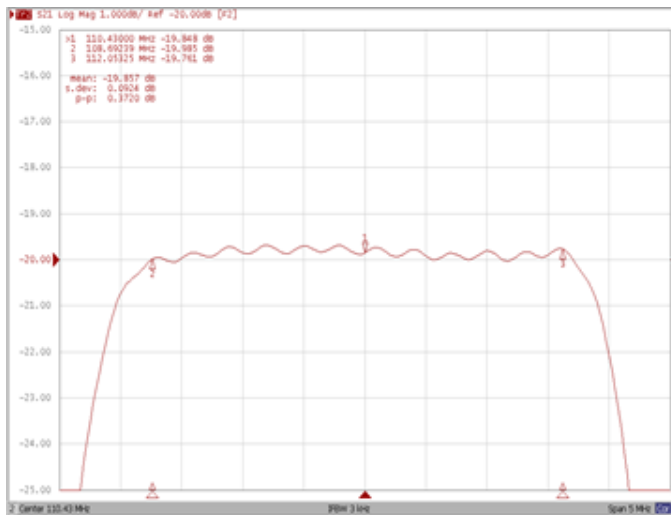
**Bandwidth at -40.0 dB**

**Bandwidth at -50.0 dB**

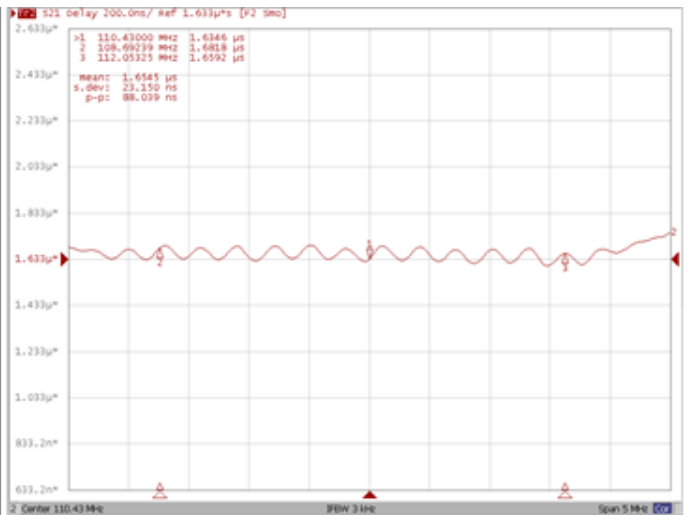


## Frequency Response

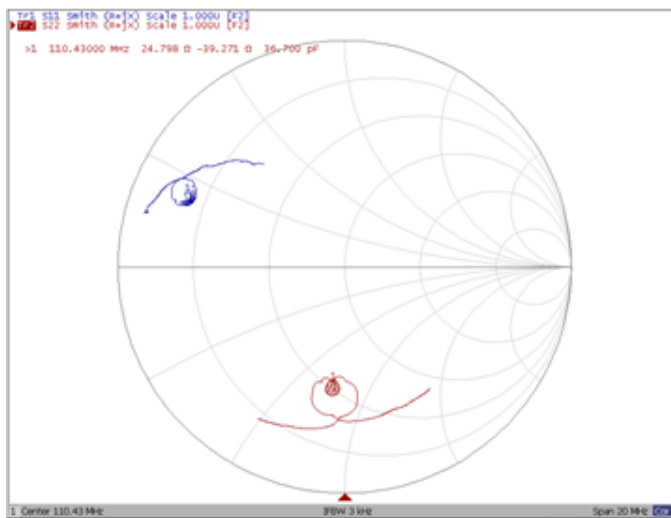
**Ripple Variation**



**Group Delay Variation**



**Smith Chart**



**VSWR**

