

- 120.0 MHz IF SAW Filter / 11.0 MHz Bandwidth
- Revision 0: 29. Dec. 2007

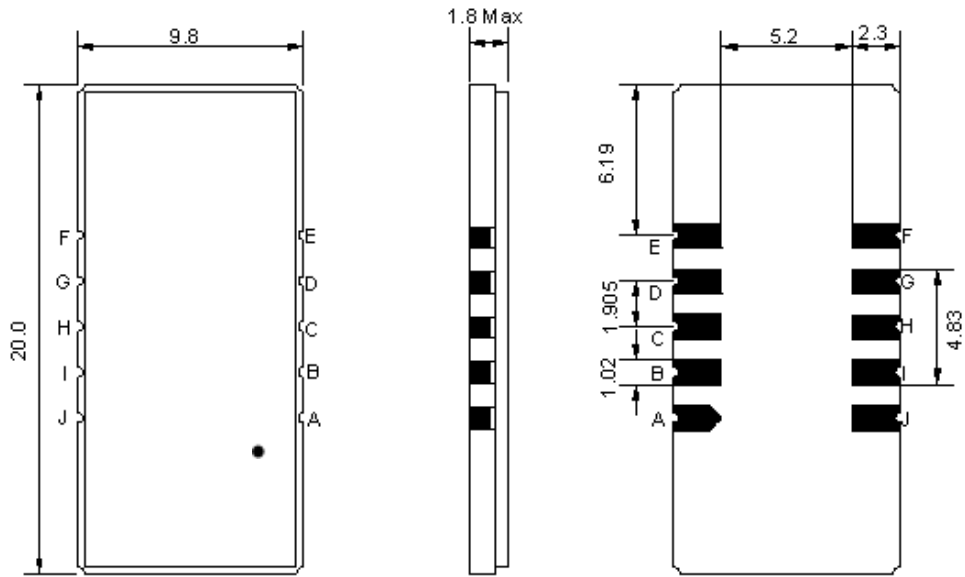
## Electrical Characteristics

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	119.9	120.0	120.1
Insertion Loss at Fo	dB	-	25.7	27.0
Amplitude Ripple Variation at Fo ±5.5 MHz	dB <sub>p-p</sub>	-	0.5	1.0
Group Delay Variation at Fo ±5.5 MHz	nsec	-	45	100
Absolute Delay at Fo	μsec	-	3.14	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	-	11.55	-
Bandwidth at -3.0 dB	MHz	11.70	11.93	-
Bandwidth at -30.0 dB	MHz	-	13.10	-
Bandwidth at -45.0 dB	MHz	-	13.40	14.00
Lower Sidelobe	dB	50	55	-
Upper Sidelobe	dB	50	55	-

**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.

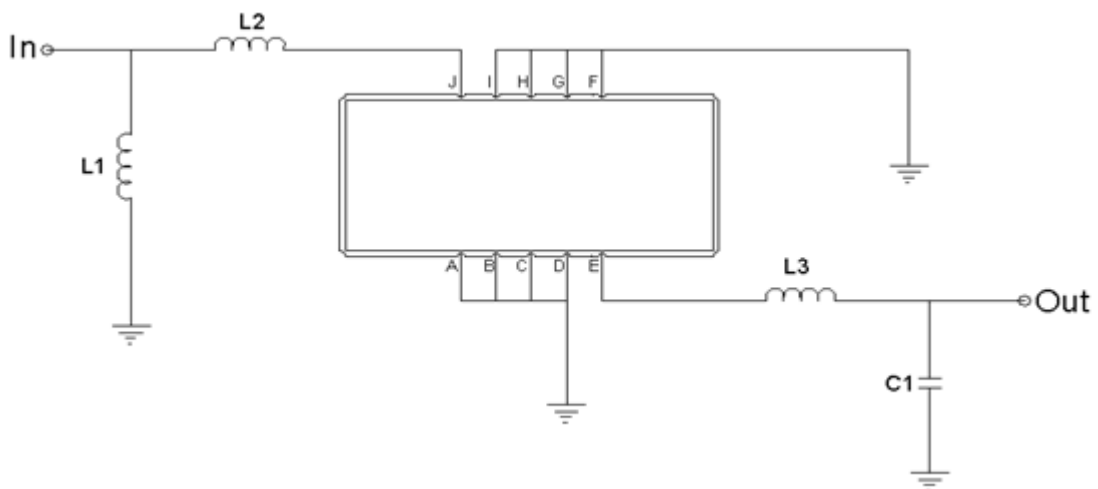
## Package Dimensions



- ① TRANSKO: Brand
- ② TA12011A: 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



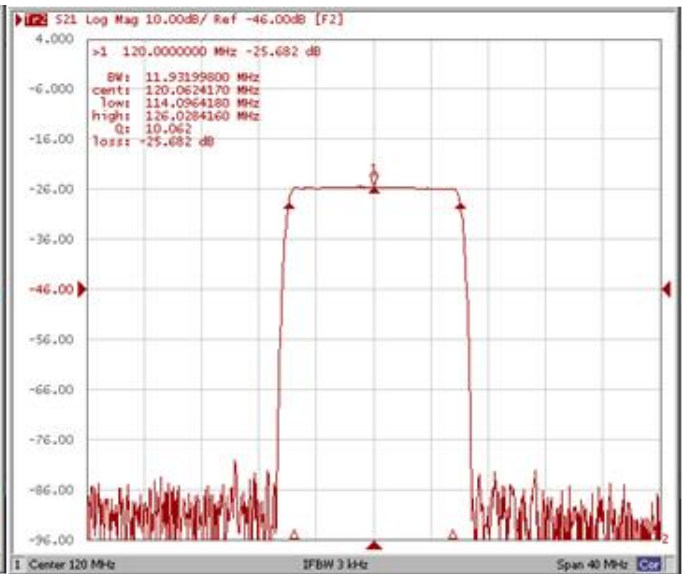
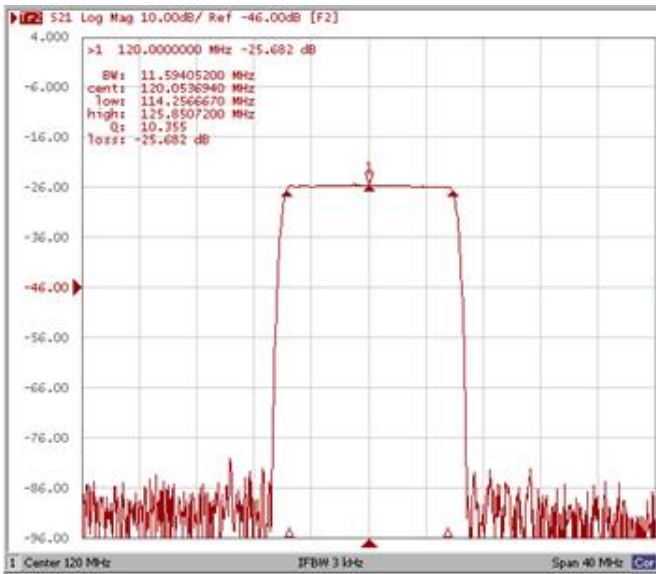
Test Fixture & Values	
Input	L1=39nH, L2=12nH
Output	L3=47nH, C1=33pF
Source/Load Impedance	50 Ω

## Frequency Characteristics

### Frequency Response

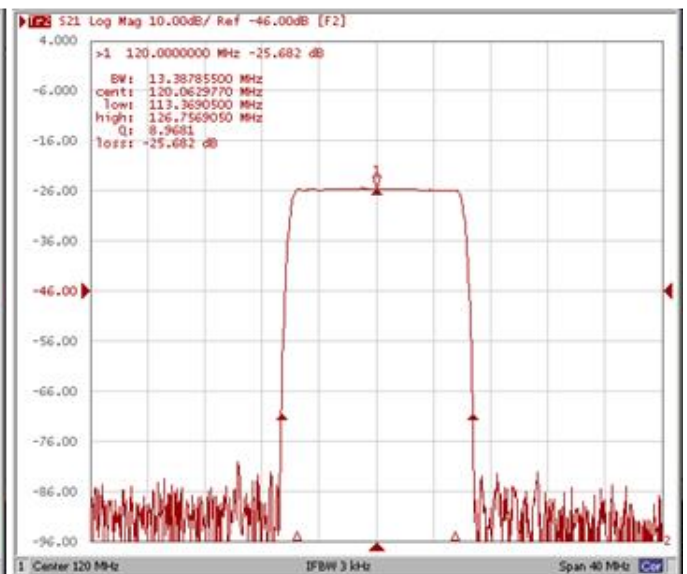
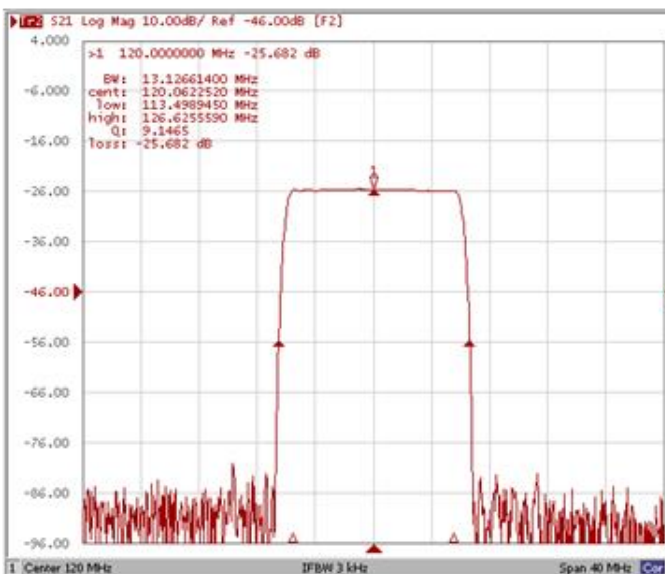
**Bandwidth at -1.0 dB**

**Bandwidth at -3.0 dB**



**Bandwidth at -30.0 dB**

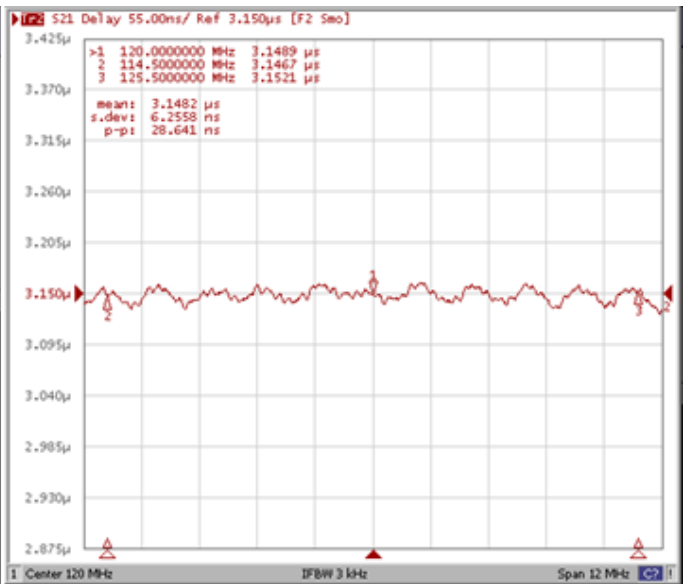
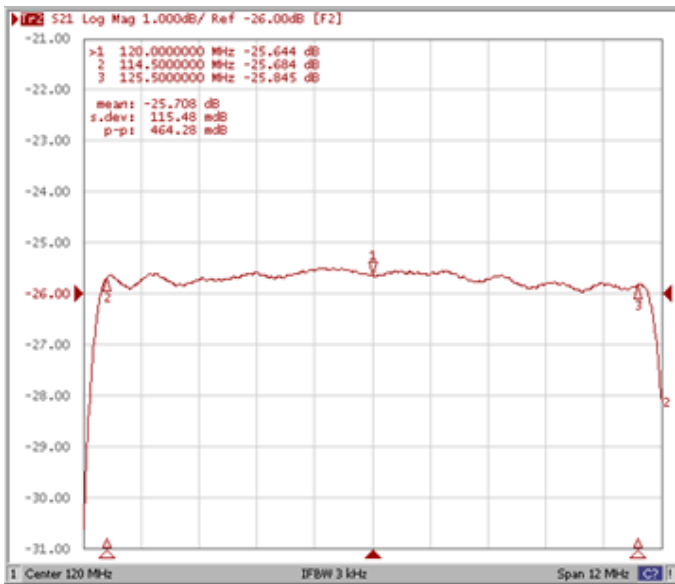
**Bandwidth at -45.0 dB**



## Frequency Response

**Ripple Variation Fo±5.5 MHz**

**Group Delay Variation Fo±5.5 MHz**



**Smith Chart**

**VSWR**

