

- 76.80 MHz IF SAW Filter / 15.80 MHz Bandwidth
- Revision 0: 18. Apr. 2011

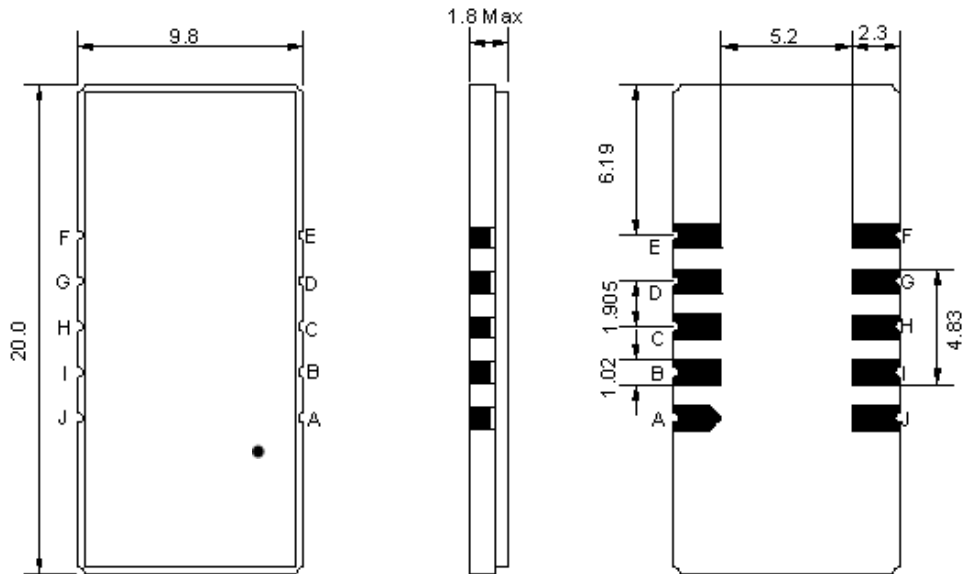
## Electrical Characteristics

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	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	-	76.80	-
Insertion Loss at Fo	dB	-	23.00	25.00
Group Delay Variation (Fo±7.50MHz)	nsec	-	40	100
Absolute Delay at Fo	usec	-	2.05	-
Passband Ripple Variation (Fo±7.50MHz)	dB	-	0.50	1.00
Bandwidth at -1dB	MHz	15.60	15.80	-
Bandwidth at -3dB	MHz	-	16.20	-
Bandwidth at -40dB	MHz	-	17.60	17.80
Ultimate Rejection	dB	50	55	-
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.

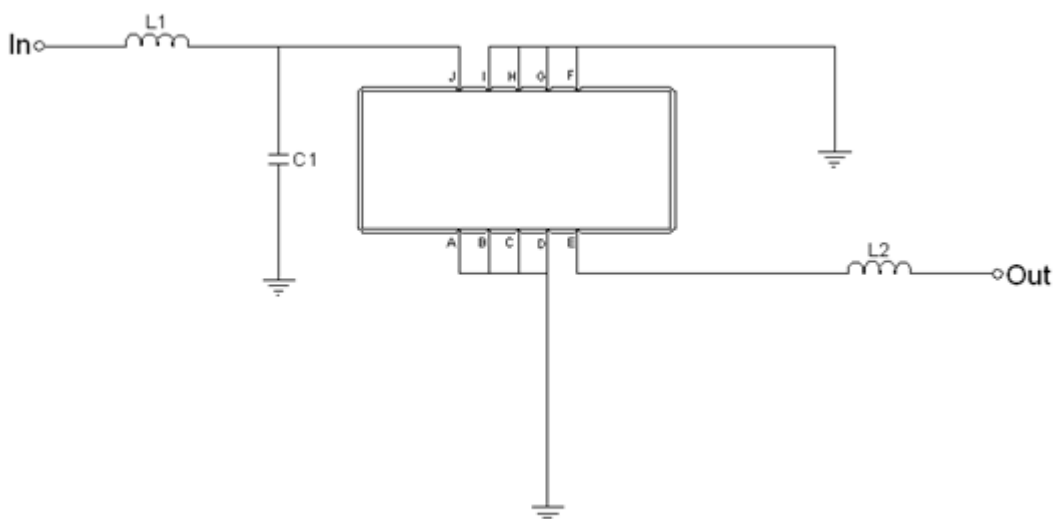
## Package Dimensions



- ① TRANSKO: Brand
- ② TA07615A: 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

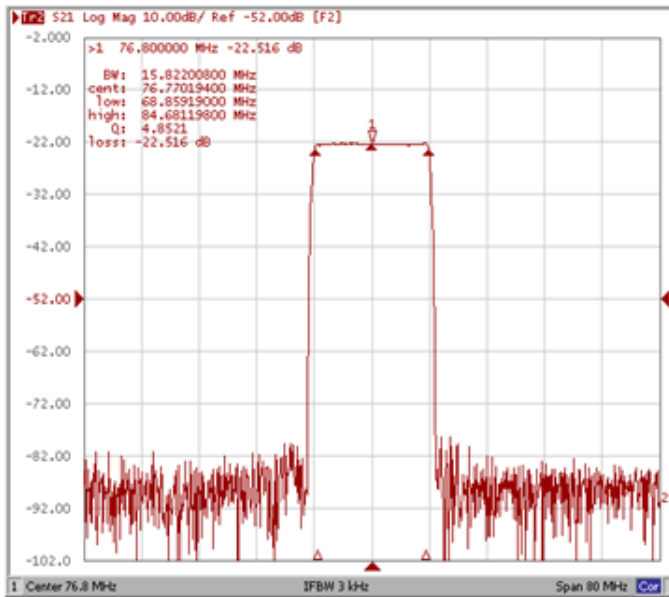


Test Fixture & Values	
Input	L1 = 68 nH, C1=9pF
Output	L2 = 68 nH
Source/Load Impedance	50 Ω

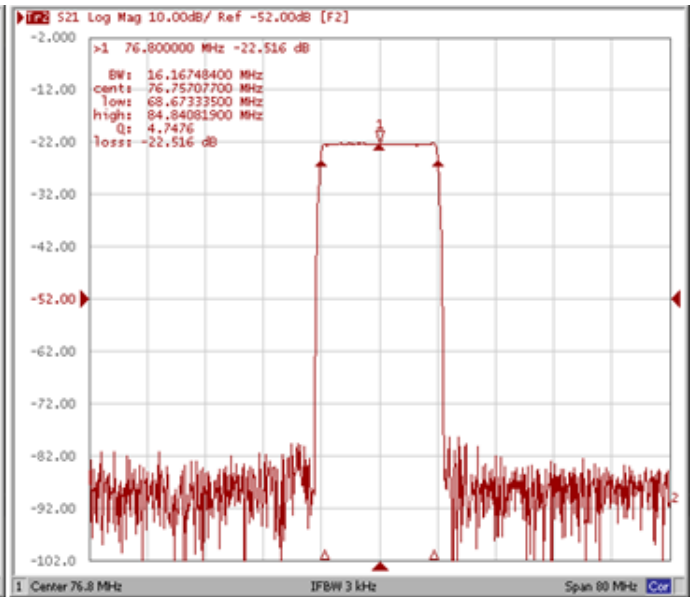
## Frequency Characteristics

### Frequency Response

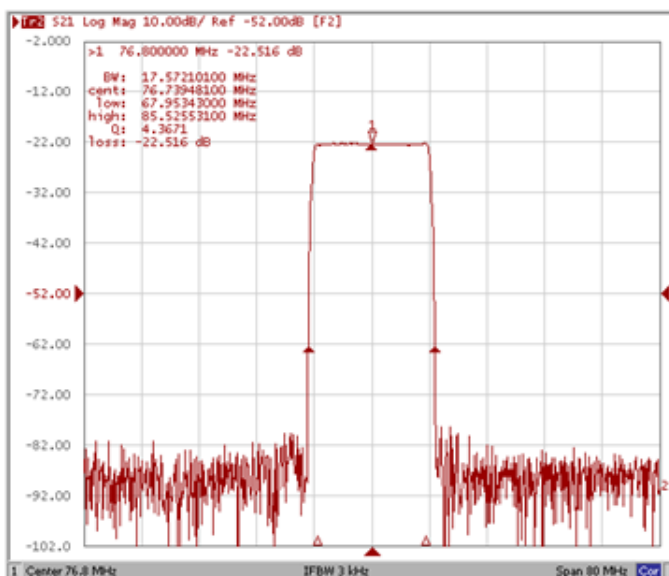
**Bandwidth at -1.0 dB**



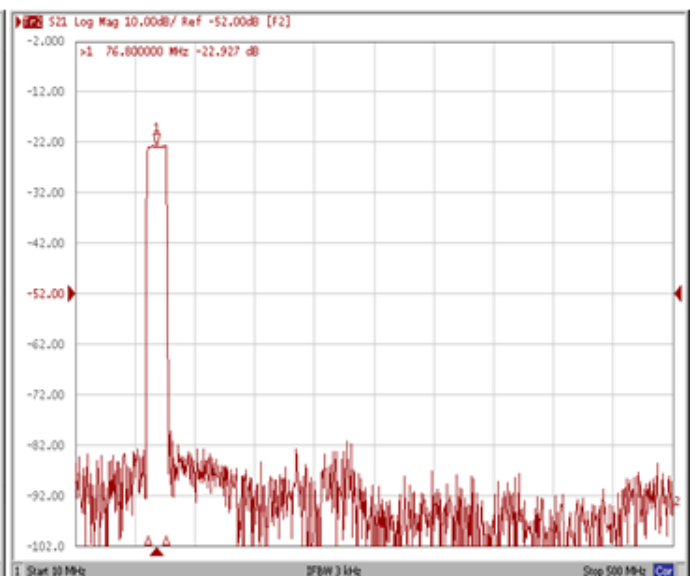
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**



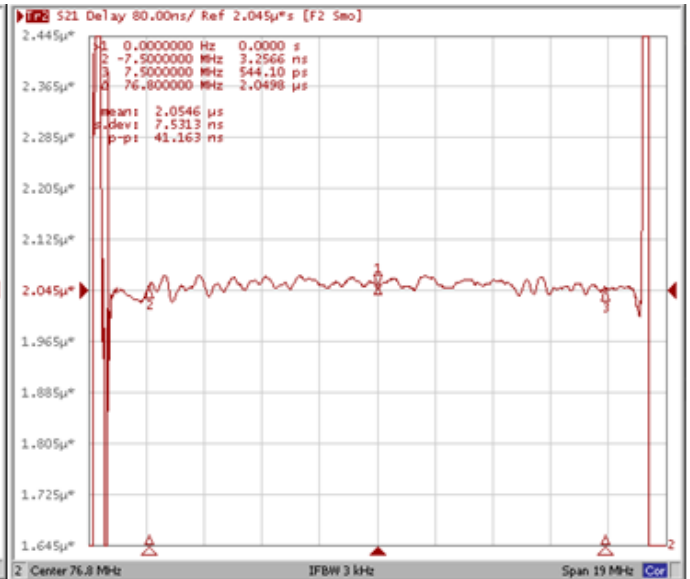
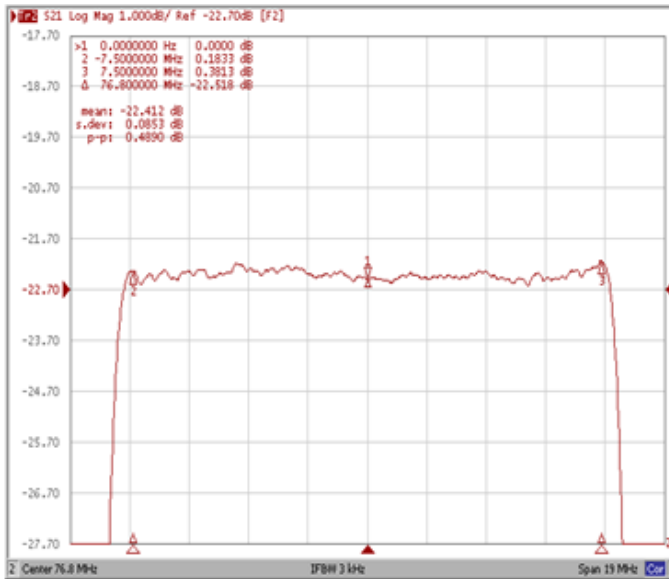
**Wide-Band**



## Frequency Response

**Ripple Variation Fo±7.50MHz**

**Group Delay Variation Fo±7.50MHz**



**Smith Chart**

**VSWR**

