

- 75.0 MHz IF SAW Filter / 11.65 MHz Bandwidth
- Revision 0: 19 Dec. 2007

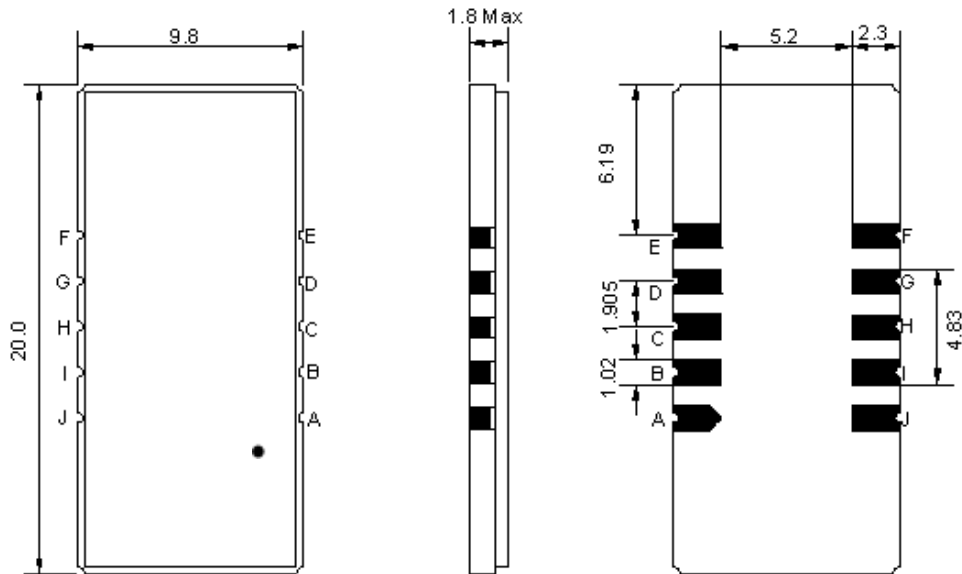
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	0	-	60
Storage Temperature Range	°C	-20	-	70
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	-	75.00	-
Insertion Loss at Fo	dB	-	20.5	23.5
Group Delay Variation (Fo±5.5MHz)	ns	-	42	100
Absolute Delay	us	-	2.40	-
Temperature Coefficient	ppm/°C	-	-72	-
Passband Ripple (Fo±5.5MHz)	dB	-	0.56	1.00
Bandwidth at -1dB	MHz	11.00	11.65	-
Bandwidth at -30dB	MHz	-	13.13	-
Bandwidth at -45dB	MHz	-	13.40	15.00
Ultimate Rejection	dB	-	55	-
Relative Attenuation Fo±6.5MHz /Fo±7.5MHz	dB		24 / 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.

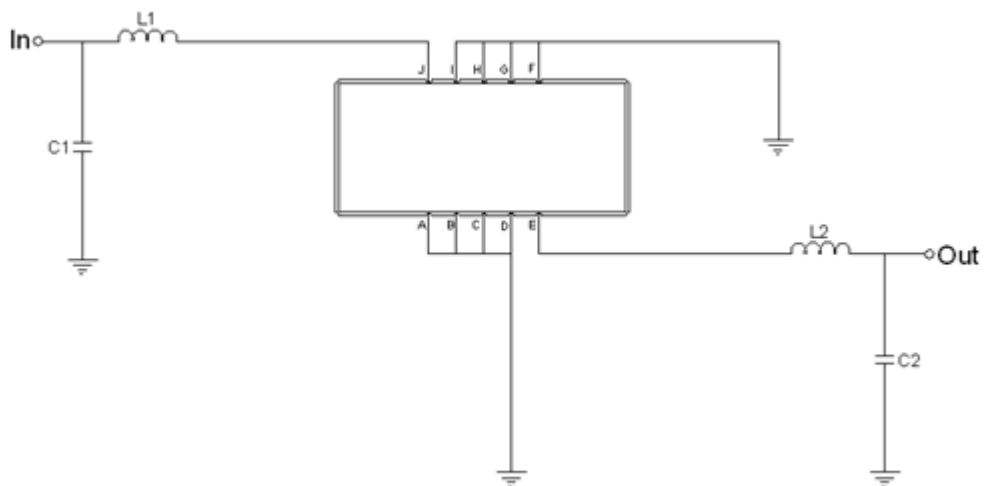
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA07511A:** 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

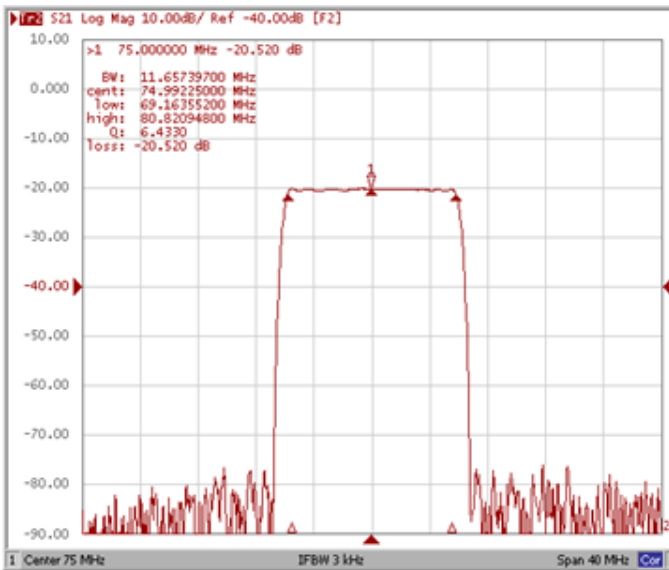


Test Fixture & Values	
Input	L1=68nH, C1=20pF
Output	L2=68nH, C2=20pF
Source/Load Impedance	50 Ω

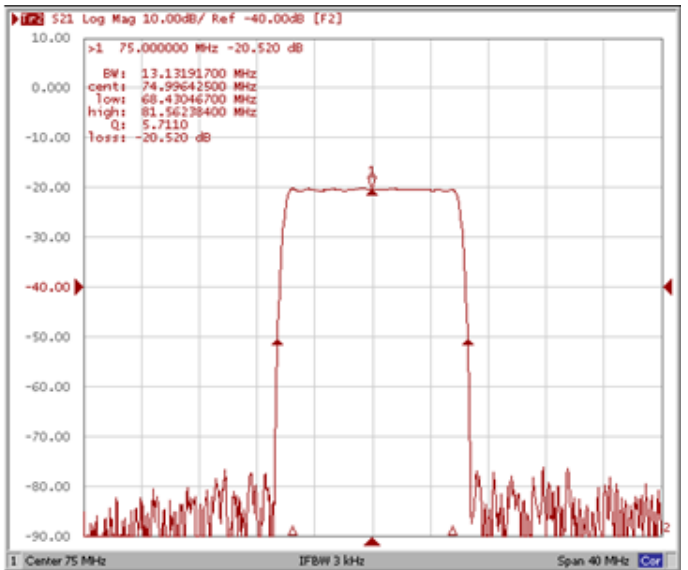
## Frequency Characteristics

### Frequency Response

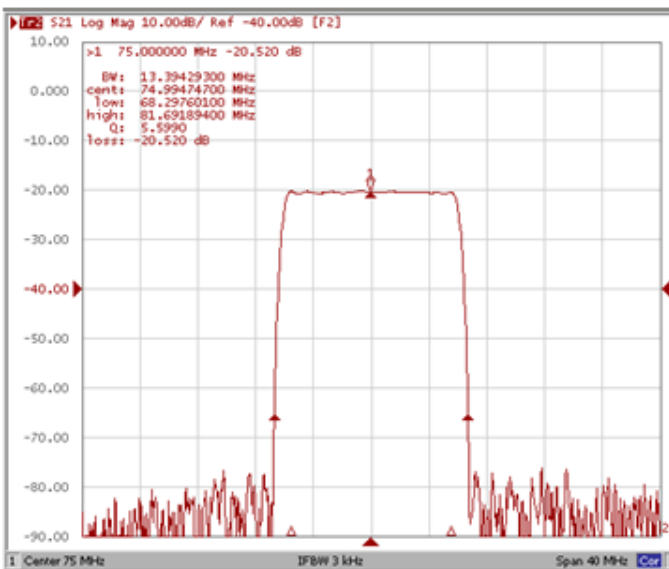
**Bandwidth at -1.0 dB**



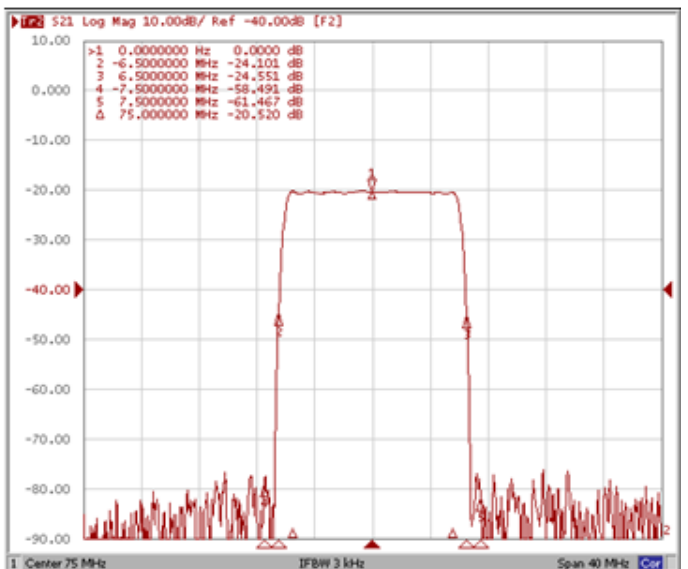
**Bandwidth at -30.0 dB**



**Bandwidth at -45.0 dB**

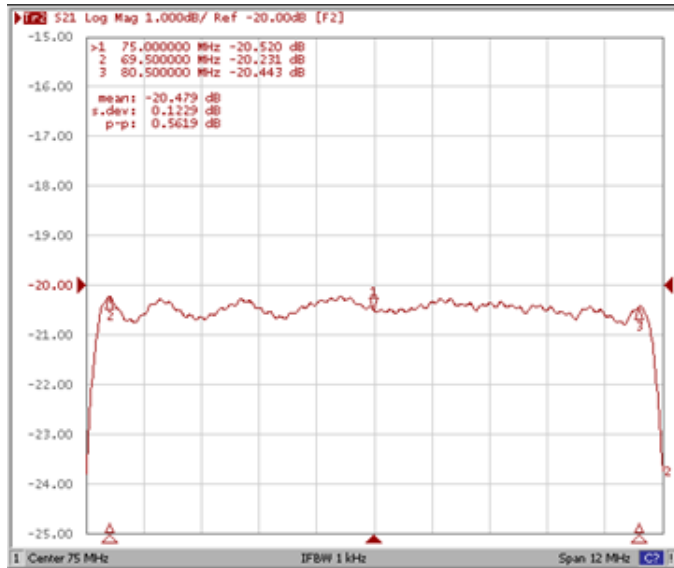


**Relative Attenuation Fo±6.5MHz /Fo±7.5MHz**

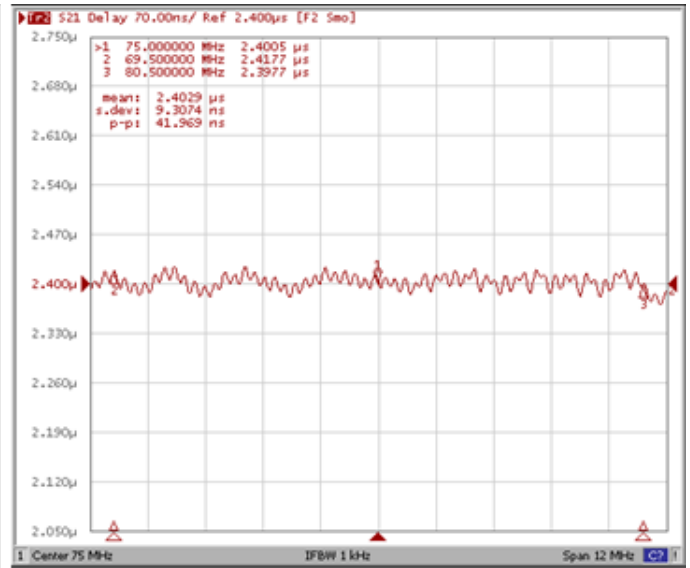


**Frequency Response**

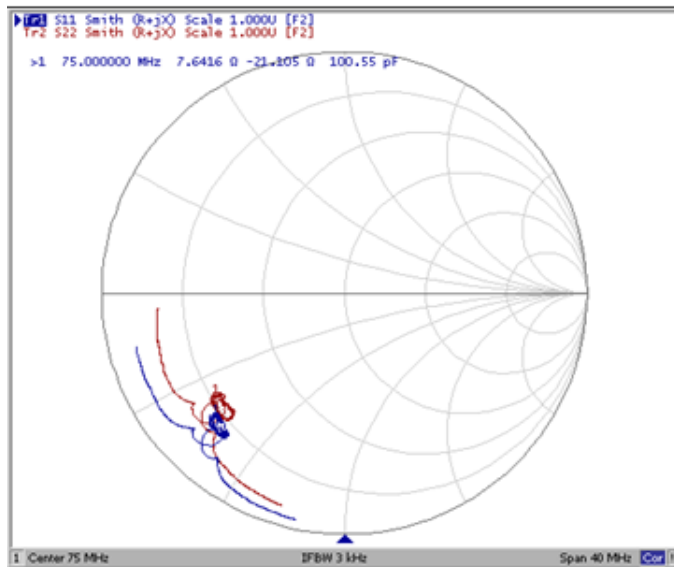
**Ripple Variation Fo±5.5MHz**



**Group Delay Variation Fo±5.5MHz**



**Smith Chart**



**VSWR**

