

- 162.51 MHz IF SAW Filter / 5.22 MHz Bandwidth
- Revision 0: 12. Jan. 2012

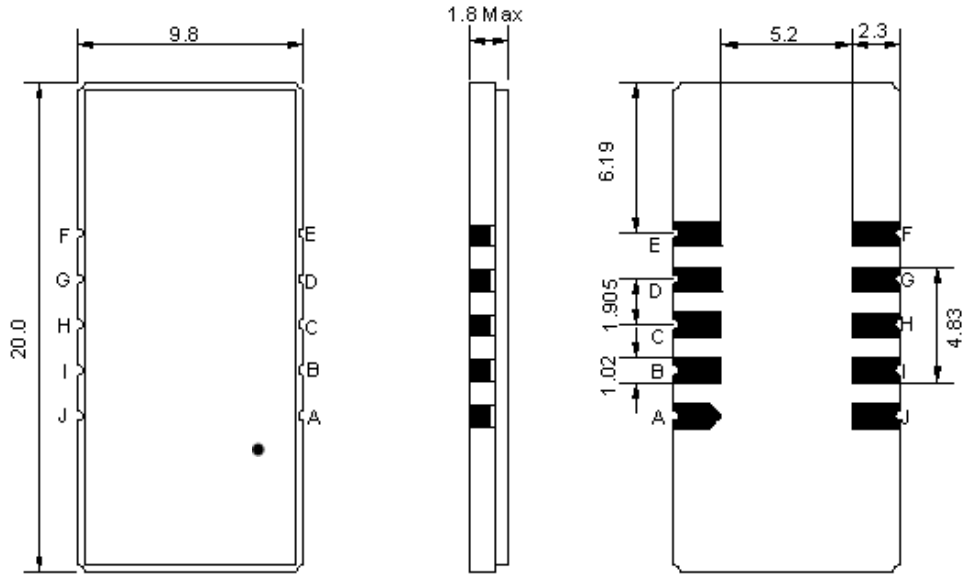
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-	25	-
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	-	162.51	-
Insertion Loss at Fo	dB	-	23.7	26.0
Group Delay Variation (Fo±4.5MHz)	nsec	-	112	200
Absolute Delay at Fo	usec	-	2.27	-
Passband Ripple Variation(Fo±4.5MHz)	dB	-	0.60	1.20
Bandwidth at -1dB	MHz	5.10	5.22	-
Bandwidth at -3dB	MHz	-	5.42	-
Bandwidth at -40dB	MHz	-	6.31	6.45
Ultimate Rejection	dB	40	45	-
Relative Attenuation				
@edge ±0.5MHz	dB	-	12	-
@edge ±0.555MHz	dB	-	17	-
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.

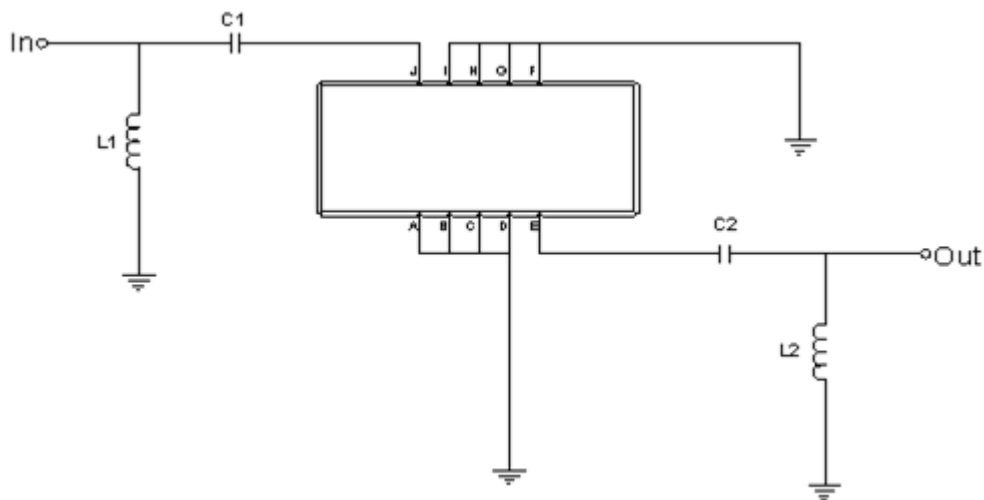
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA16205A:** 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

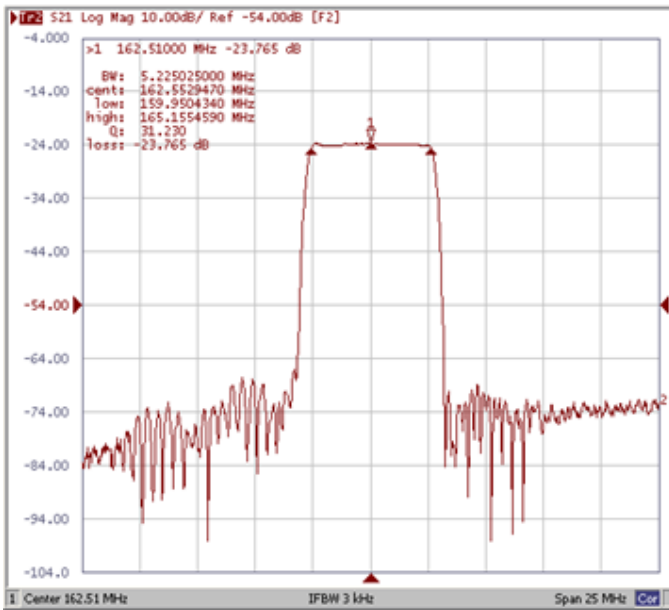


Test Fixture & Values	
Input	L1 = 33 nH, C1 = 30 pF
Output	L2 = 22 nH, C2 = 36 pF
Source/Load Impedance	50 Ω

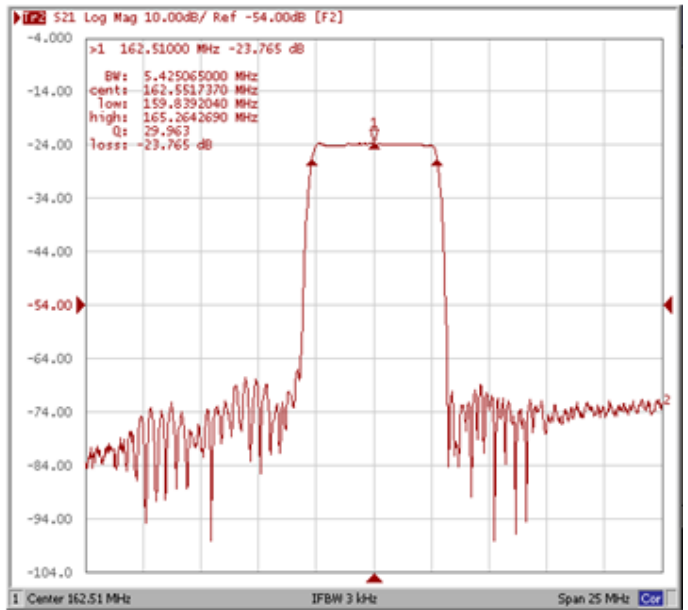
## Frequency Characteristics

### Frequency Response

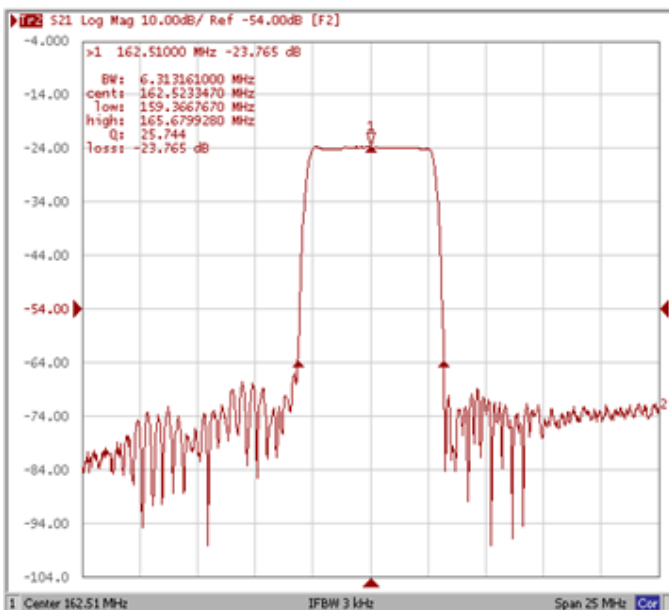
**Bandwidth at -1.0 dB**



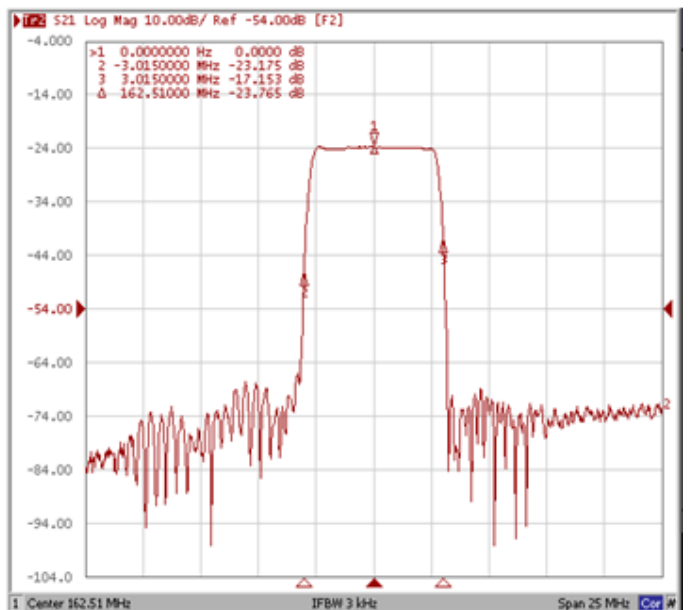
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**



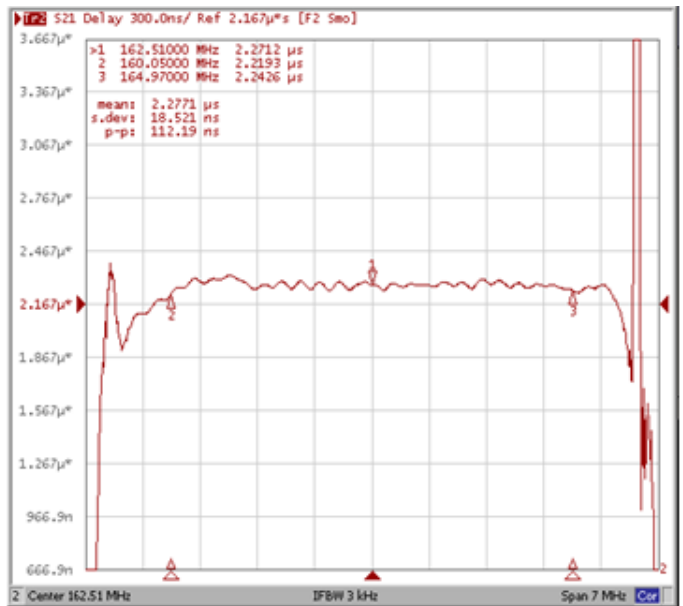
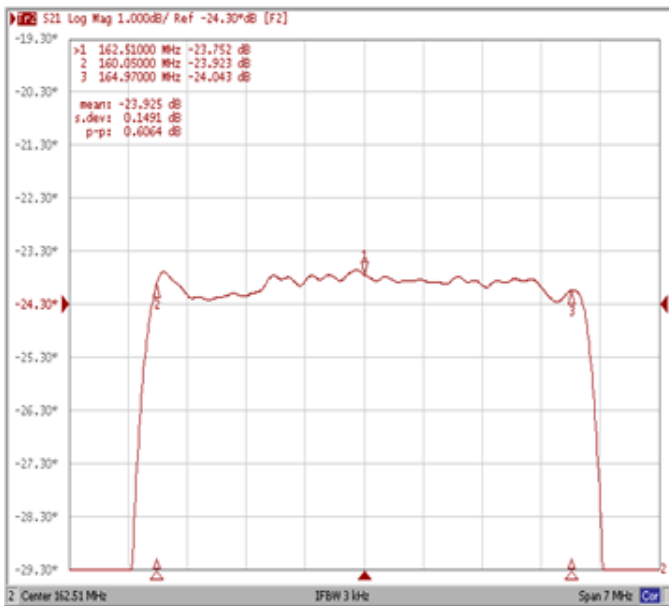
**Relative Attenuation @edge ±0.555MHz**



**Frequency Response**

Ripple Variation

Group Delay Variation



Smith Chart

VSWR

