

- 162.00 MHz IF SAW Filter / 0.19 MHz Bandwidth
- Revision 0: 24 May 2012

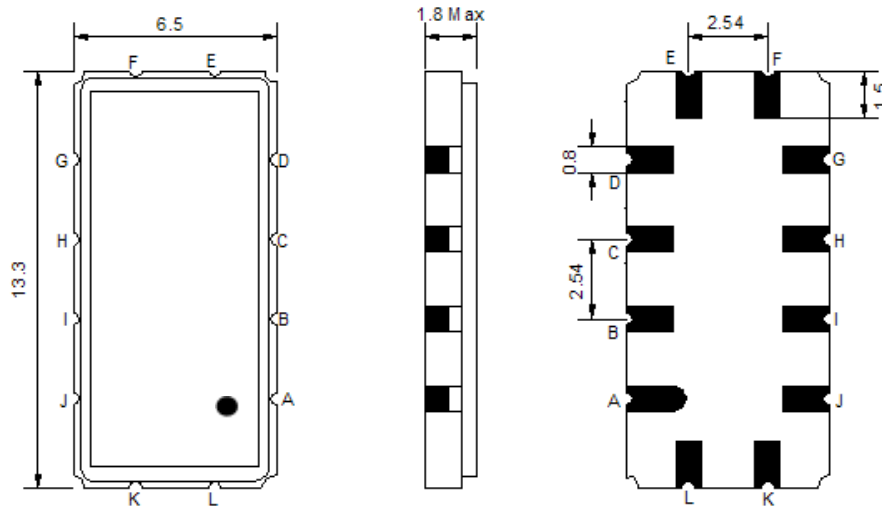
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-30	-	85
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	0
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	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	161.92	162.00	162.08
Insertion Loss at Fo	dB	-	4.8	6.5
Group Delay Variation at Fo ± 0.06 MHz	usec	-	1.4	-
Absolute Delay at Fo	usec	-	2.6	-
Passband Ripple Variation	dB	-	0.27	1.00
Bandwidth at -1dB	MHz	0.12	0.19	-
Bandwidth at -3dB	MHz	-	0.25	-
Bandwidth at -40dB	MHz	-	0.74	0.90
Ultimate Rejection	dB	-	40	-
Temperature Coefficient	ppm/°C	-	-0.03	-

**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.

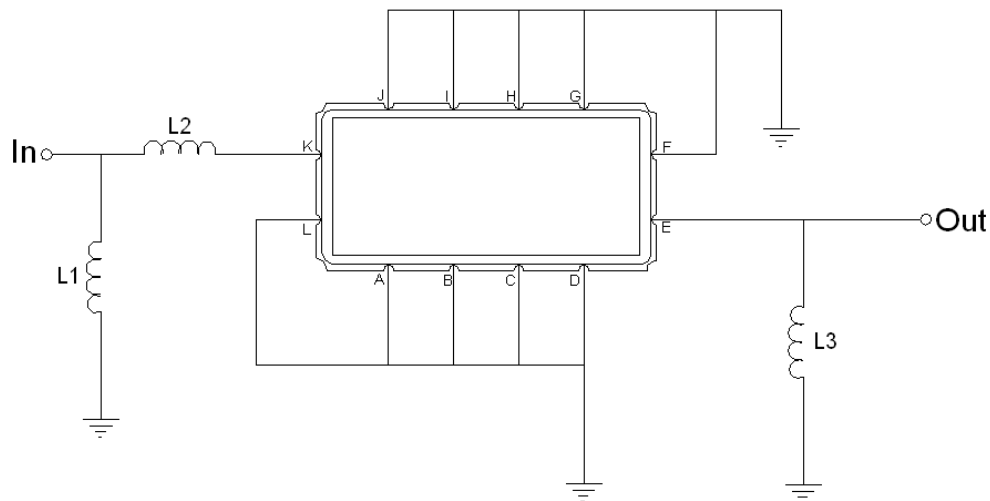
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL162002A:** 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, J, L	Ground
K	Input
E	Output

## Testing Environment



Test Fixture & Values	
Input	L1 = 33nH, L2 = 12nH
Output	L3 = 22nH
Source/Load Impedance	50 Ω

## Frequency Characteristics

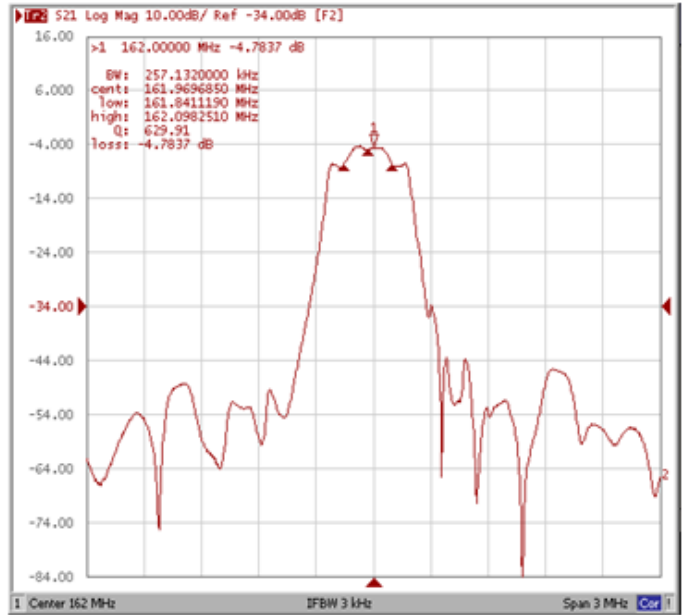
## Frequency Response

Operating Temperature : +25 °C

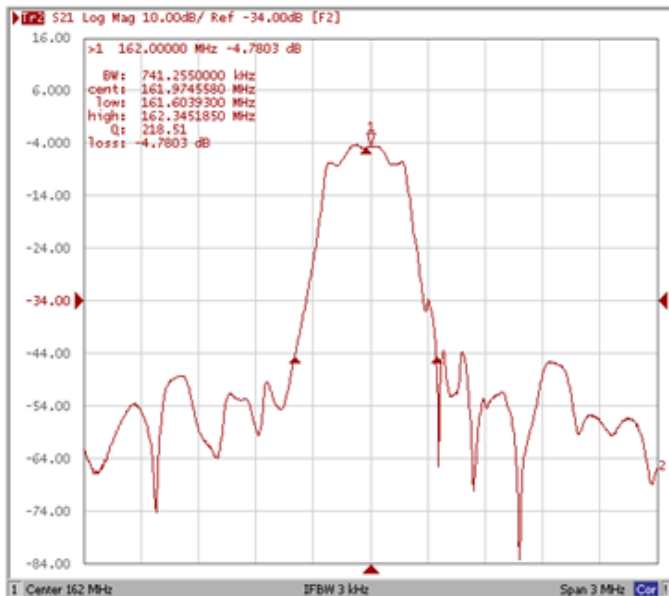
**Bandwidth at -1.0 dB**



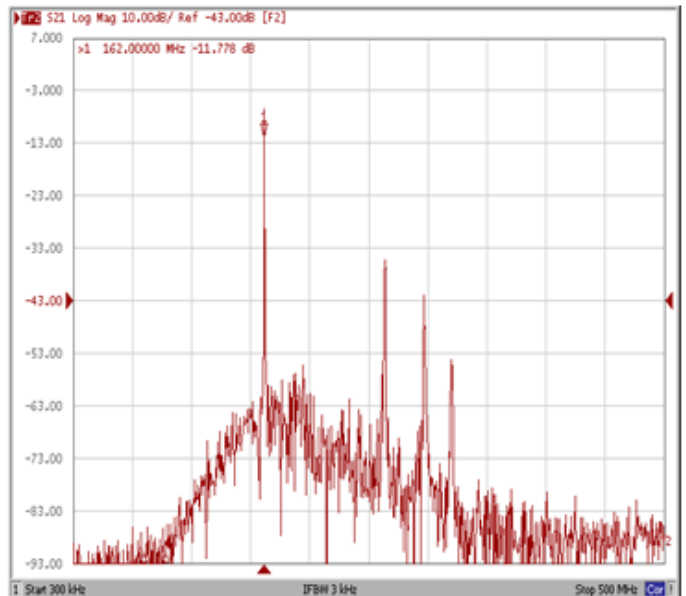
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**

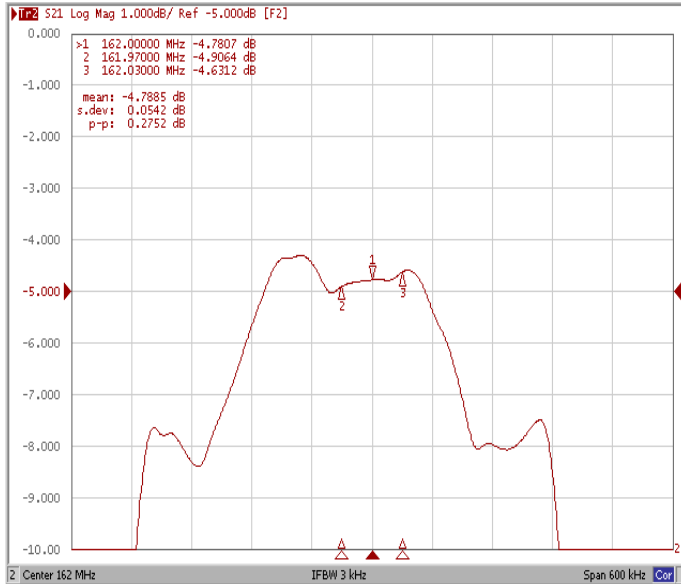


**Wide Band**

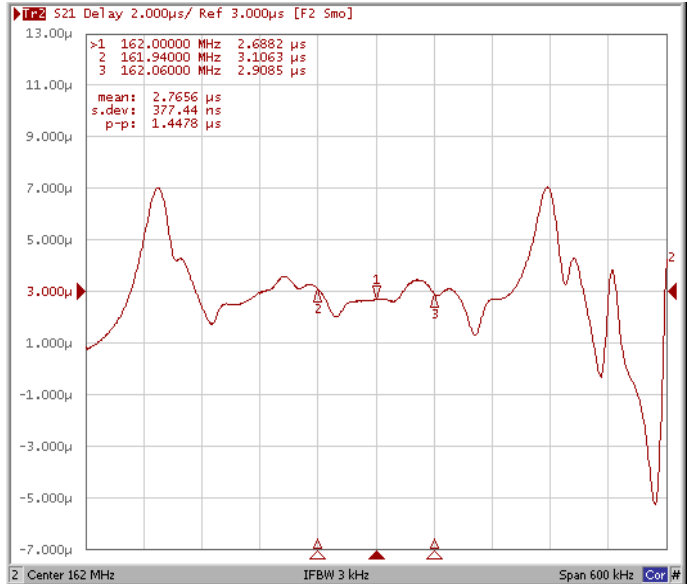


## Frequency Response

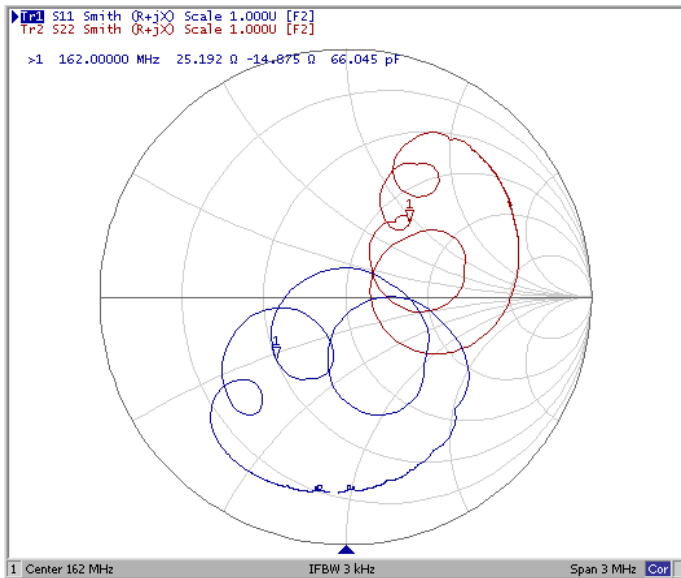
### Passband Ripple Variation



### Group Delay Variation Fo±0.06MHz



### Smith Chart



### VSWR

