

- 167.50 MHz IF SAW Filter / 14.35 MHz Bandwidth
- Revision 0: 01. Apr. 2011

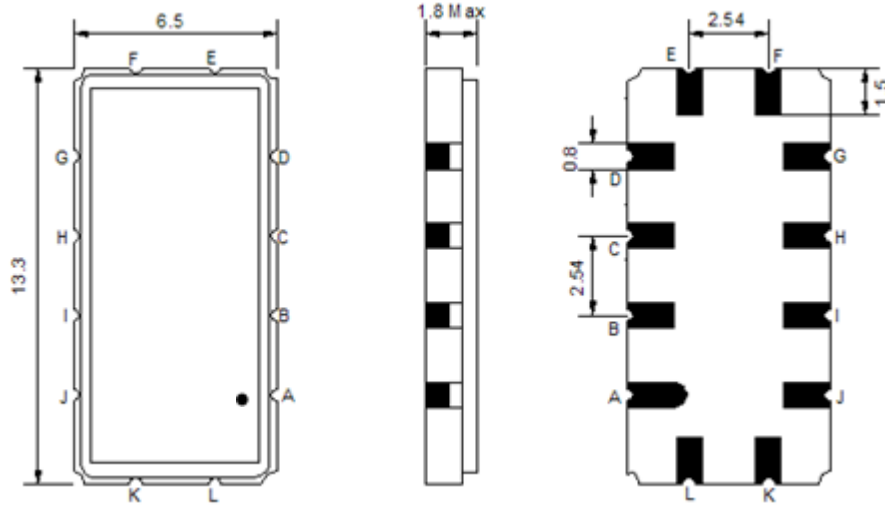
## Electrical Characteristics

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	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	-	167.50	-
Insertion Loss at Fo	dB	-	29.00	31.00
Group Delay Variation at Fo ± 7.00 MHz	nsec	-	51	90
Absolute Delay at Fo	usec	-	1.62	-
Passband Ripple Variation at Fo ± 7.00 MHz	dB	-	0.65	-
Bandwidth at -1dB	MHz	-	14.35	-
Bandwidth at -3dB	MHz	-	14.62	-
Bandwidth at -40dB	MHz	-	15.92	-
Ultimate Rejection	dB	-	45	-
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.

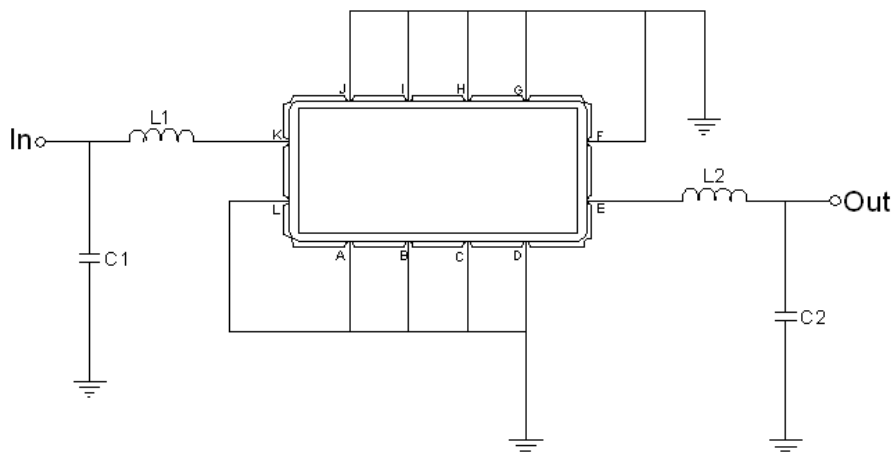
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA16714A:** 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

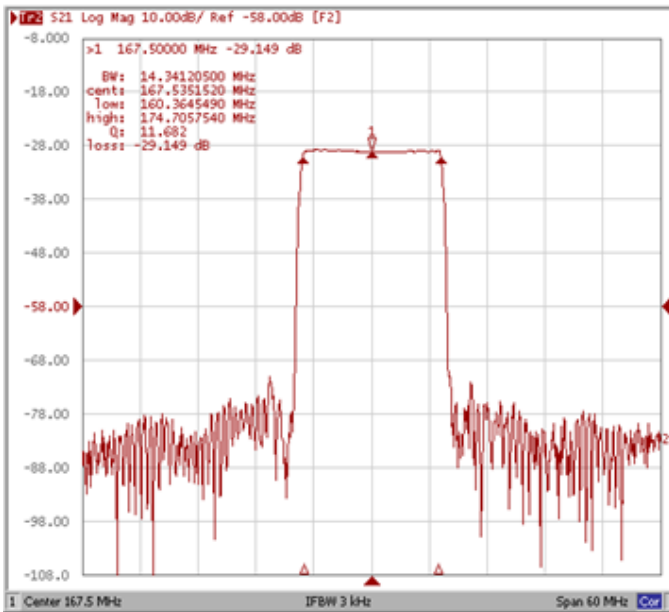


Test Fixture & Values	
Input	L1 = 39nH, C1=24pF
Output	L2 = 27nH, C2=10pF
Source/Load Impedance	50 Ω

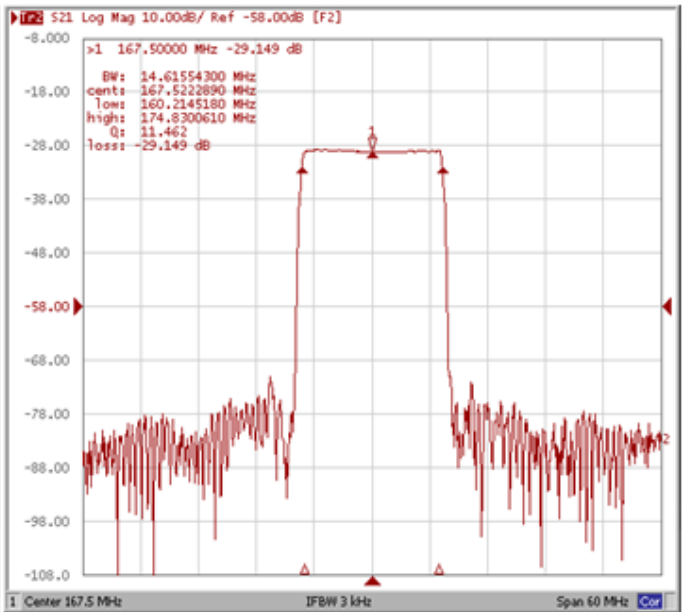
## Frequency Characteristics

### Frequency Response

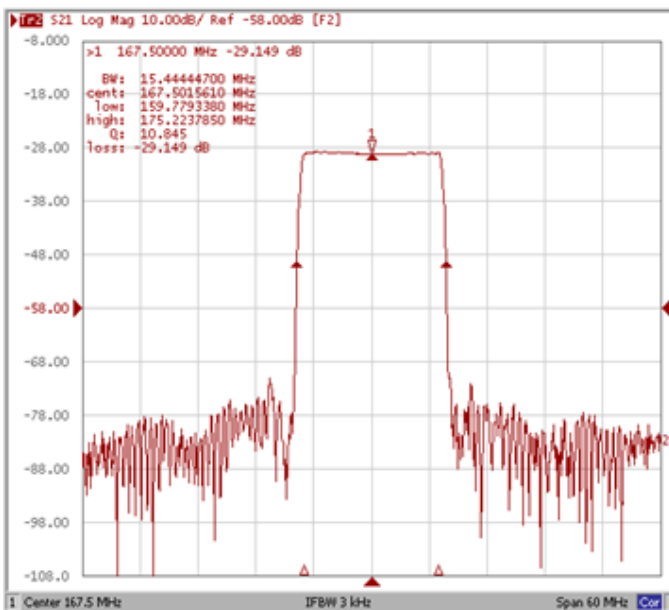
**Bandwidth at -1.0 dB**



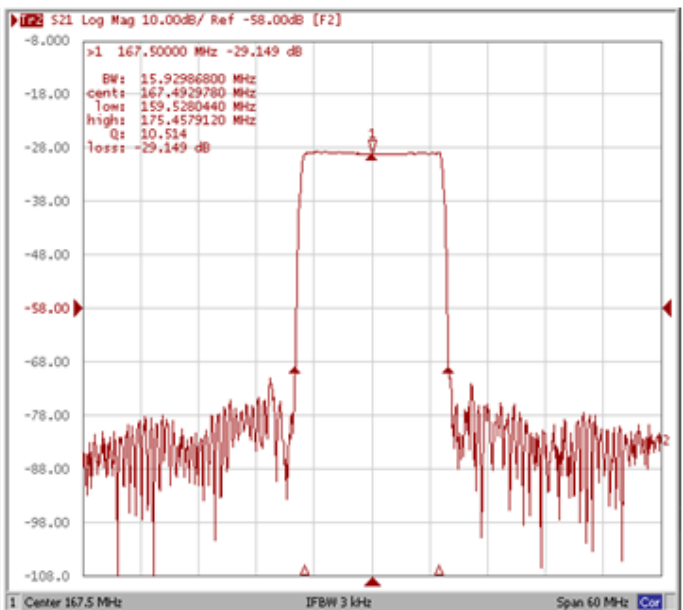
**Bandwidth at -3.0 dB**



**Bandwidth at -20.0 dB**



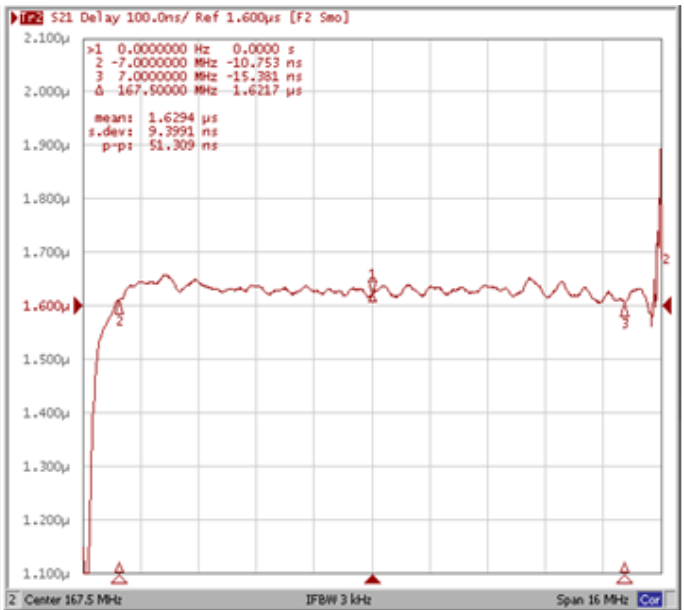
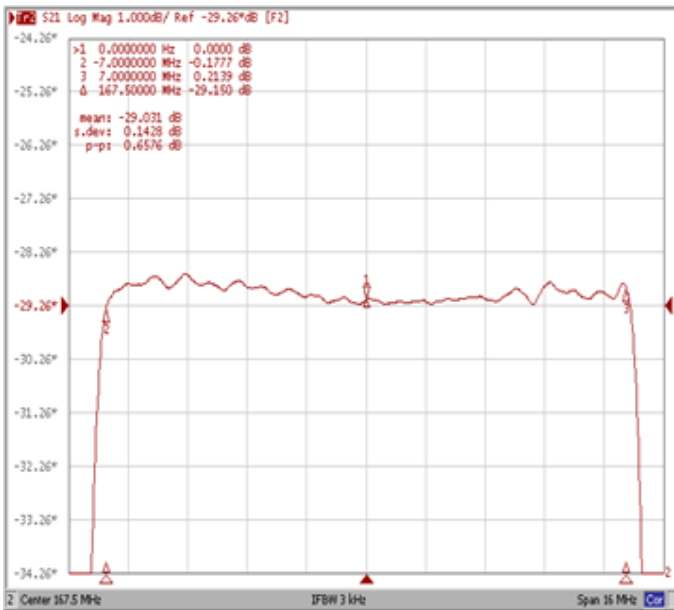
**Bandwidth at -40.0 dB**



**Frequency Response**

**Ripple Variation Fo±7.00MHz**

**Group Delay Variation Fo±7.00MHz**



**Smith Chart**

**VSWR**

