

- 120.0 MHz IF SAW Filter / 14.0 MHz Bandwidth
- Revision 0: 27. Dec. 2007

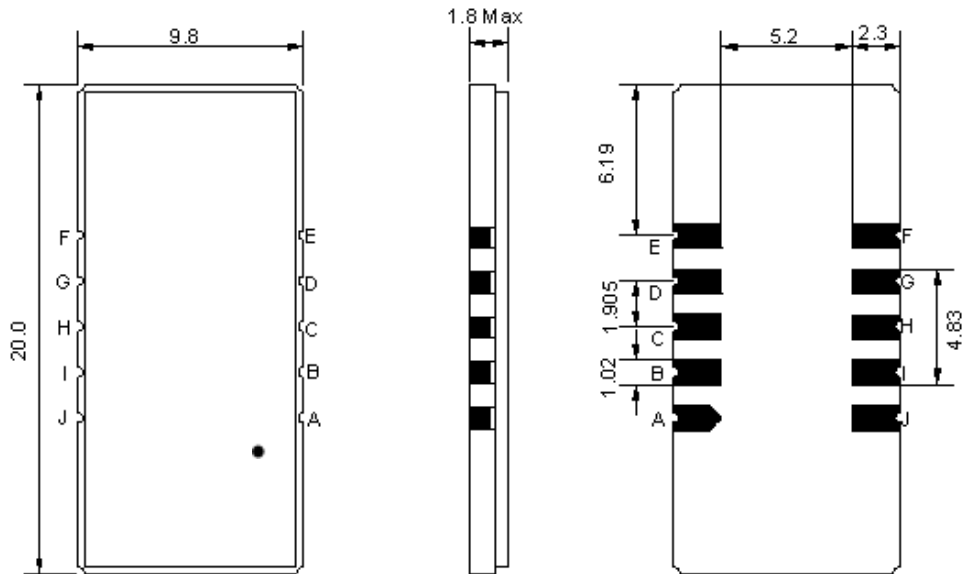
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-30	-	80
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	119.85	120.00	120.15
Insertion Loss at Fo	dB	-	23.3	25.5
Amplitude Ripple Variation at Fo ±7.0 MHz	dB <sub>p-p</sub>	-	0.5	1.0
Group Delay Variation at Fo ±7.0 MHz	nsec	-	45	100
Absolute Delay at Fo	μsec	-	2.34	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at -1.0 dB	MHz	-	14.73	-
Bandwidth at -3.0 dB	MHz	14.80	15.00	-
Bandwidth at -40.0 dB	MHz	-	16.30	16.60
Lower Sidelobe	dB	50	55	-
Upper Sidelobe	dB	50	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.

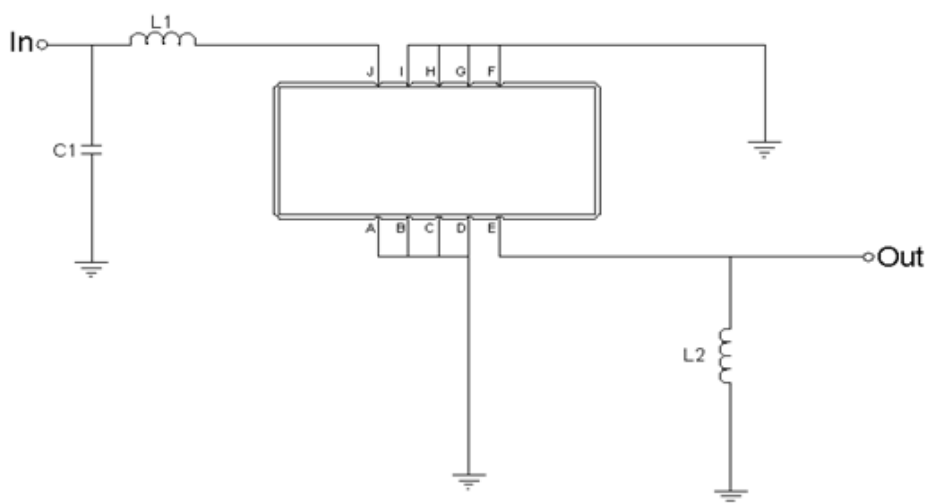
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA12014A:** 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

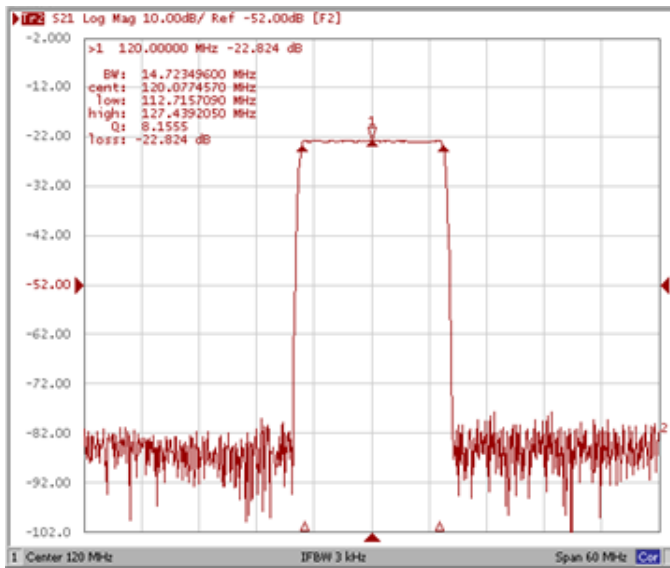


Test Fixture & Values	
Input	L1=39nH, C1=24pF
Output	L2=150nH
Source/Load Impedance	50 Ω

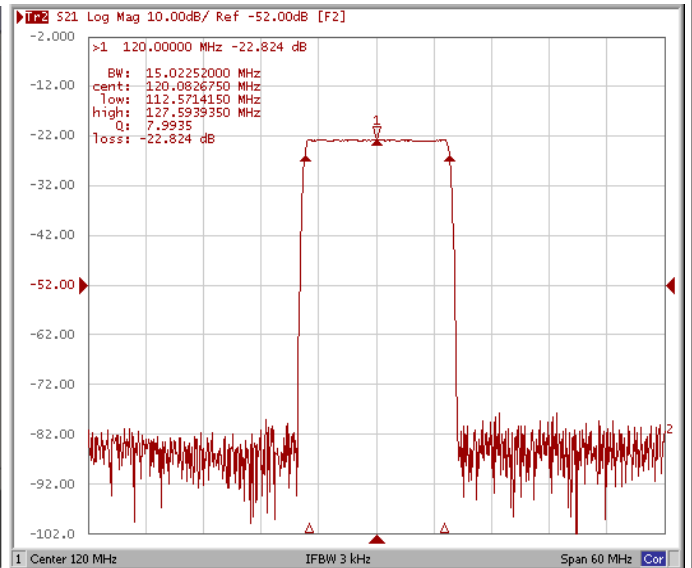
## Frequency Characteristics

### Frequency Response

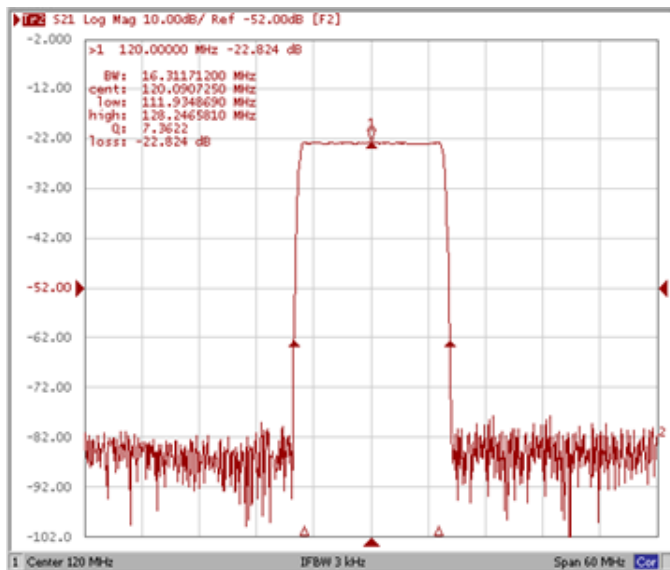
**Bandwidth at -1.0 dB**



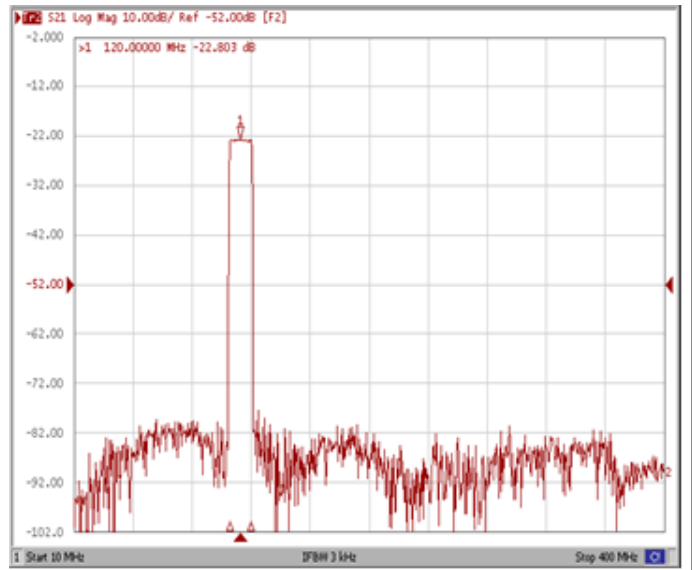
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**



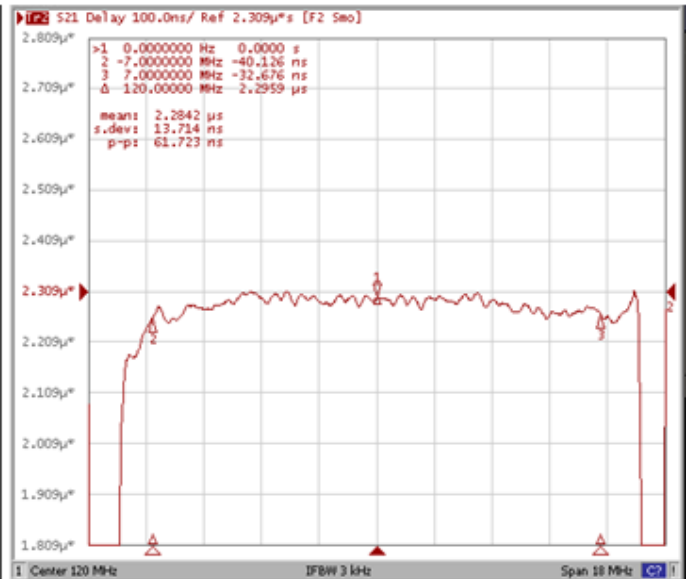
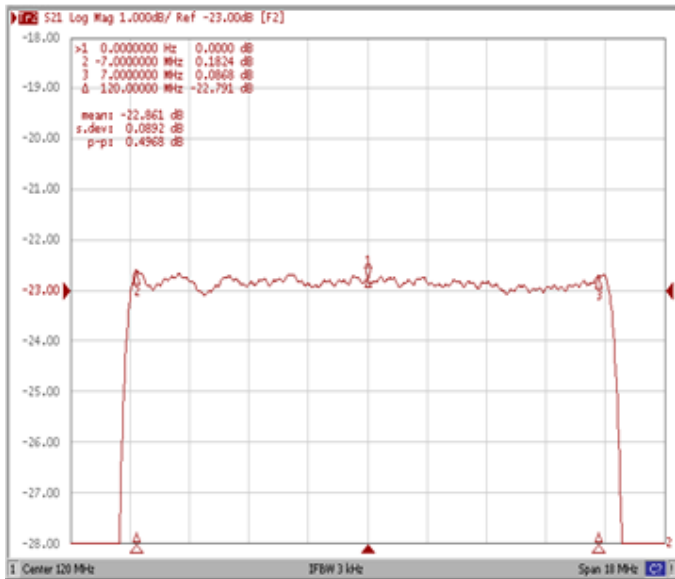
**Wide Band**



## Frequency Response

### Ripple Variation

### Group Delay Variation



### Smith Chart

### VSWR

