

- 112.5 MHz IF SAW Filter / 14.45 MHz Bandwidth
- Revision 0: 28. Jun. 2008

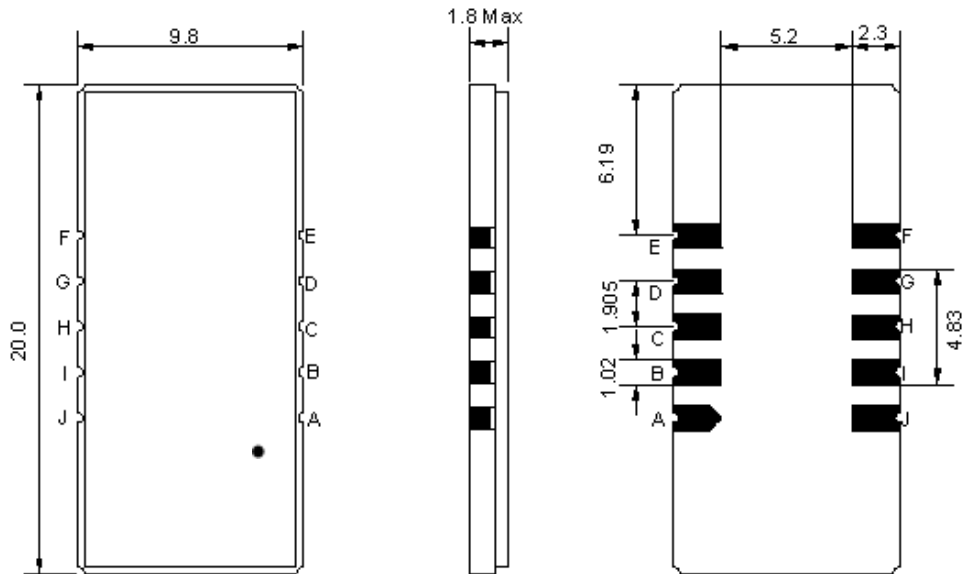
## Electrical Characteristics

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	112.40	112.50	112.60
Insertion Loss at Fo	dB	-	23.20	24.00
Group Delay Variation	ns	-	40	100
Absolute Delay at Fo	us	-	2.29	-
Passband Ripple Variation	dB	-	0.60	0.95
Bandwidth at -1dB	MHz	-	14.45	-
Bandwidth at -3dB	MHz	14.60	14.72	-
Bandwidth at -50dB	MHz	-	16.10	16.25
Ultimate Rejection	dB	50	55	-
Temperature coefficient	ppm/°C	-	-72	-

**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.

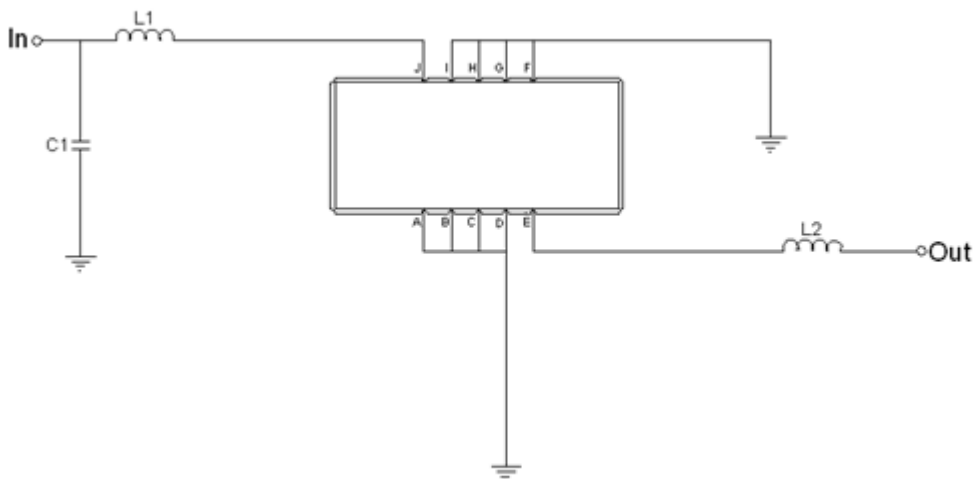
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA11214A:** 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



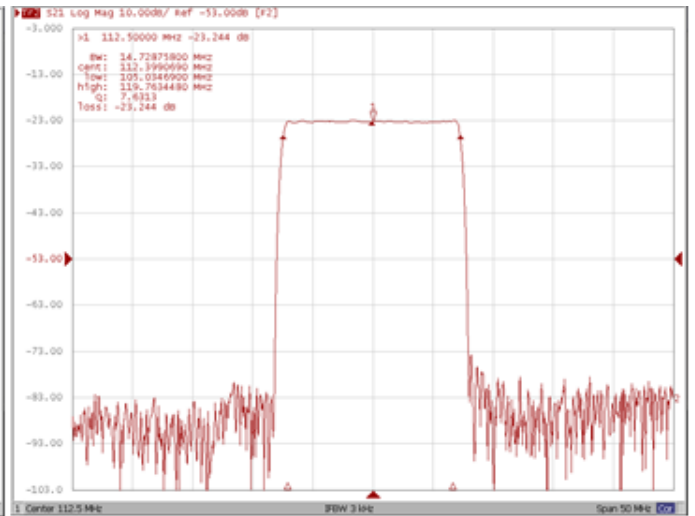
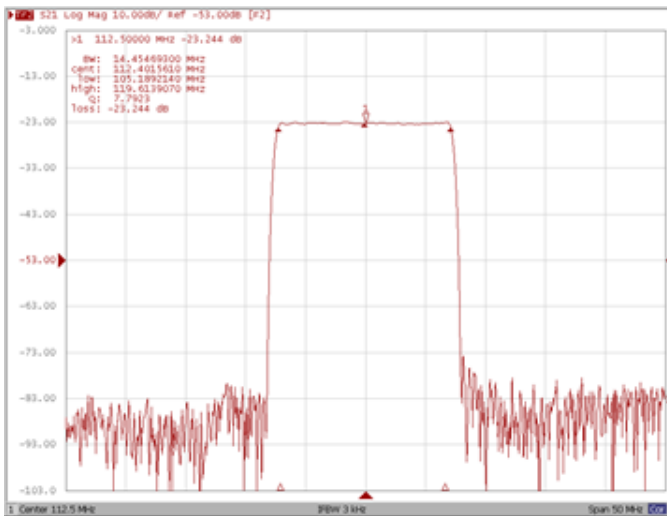
Test Fixture & Values	
Input	L1=27nH, C1=22pF
Output	L2=27nH
Source/Load Impedance	50 Ω

## Frequency Characteristics

### Frequency Response

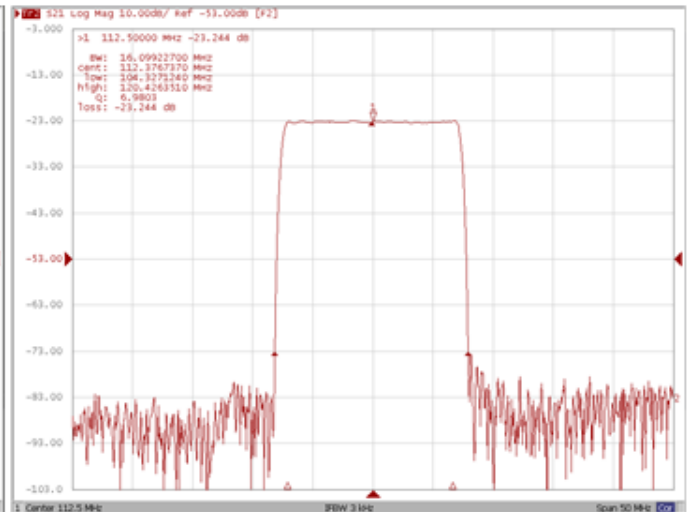
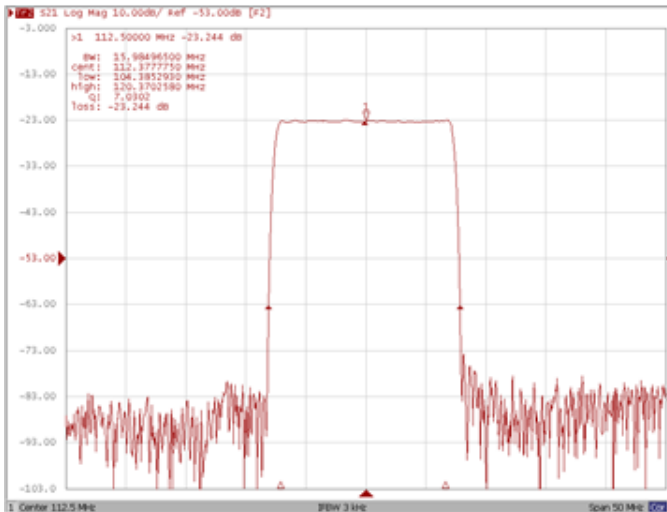
**Bandwidth at -1.0 dB**

**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**

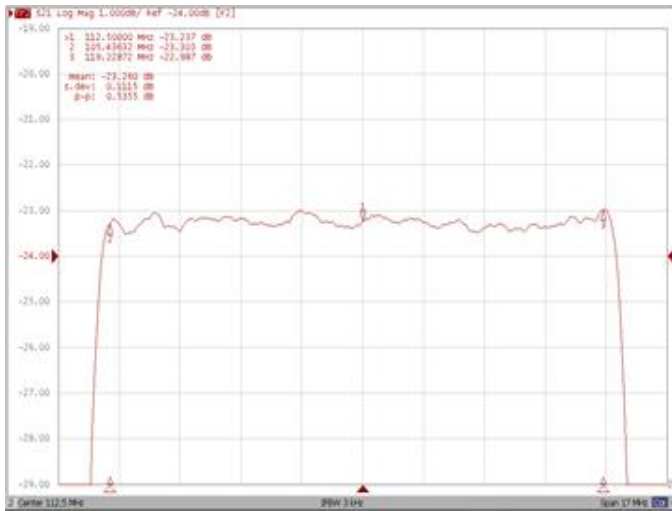
**Bandwidth at -50.0 dB**



**Frequency Response**

Ripple Variation

Group Delay Variation



Smith Chart

VSWR

