

- 91.25 MHz IF SAW Filter / 2.08 MHz Bandwidth
- Revision 0: 19. Dec. 2007

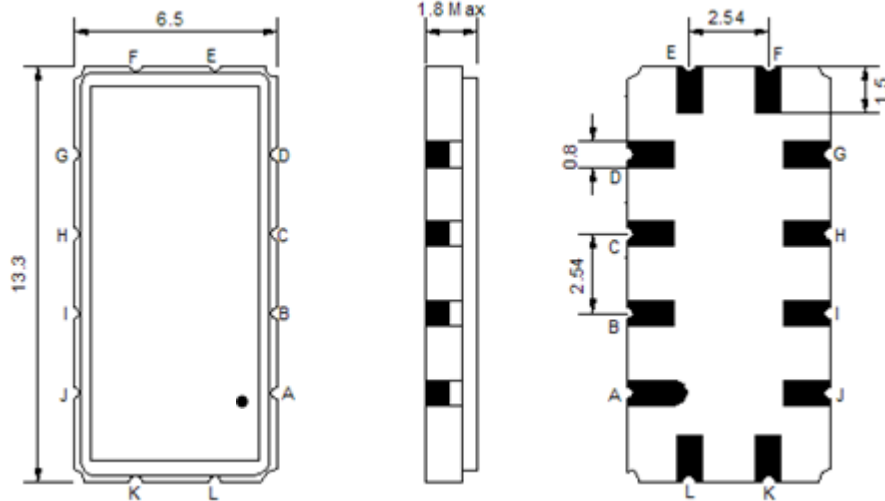
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	0	-	60
Storage Temperature Range	°C	-20	-	70
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	-	91.25	-
Insertion Loss at Fo	dB	-	20.3	22.5
Group Delay Variation (Fo±0.75MHz)	ns	-	52	100
Absolute Delay	us	-	1.80	-
Temperature Coefficient	ppm/°C		-0.03	
Passband Ripple (Fo±0.75MHz)	dB	-	0.17	1.00
Bandwidth at -1dB	MHz	1.5	2.08	-
Bandwidth at -30dB	MHz	-	3.42	-
Bandwidth at -45dB	MHz	-	3.60	5.5
Ultimate Rejection	dB	-	45	-
Relative Attenuation Fo±1.75MHz/ Fo±2.75MHz	dB	-	32 / 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.

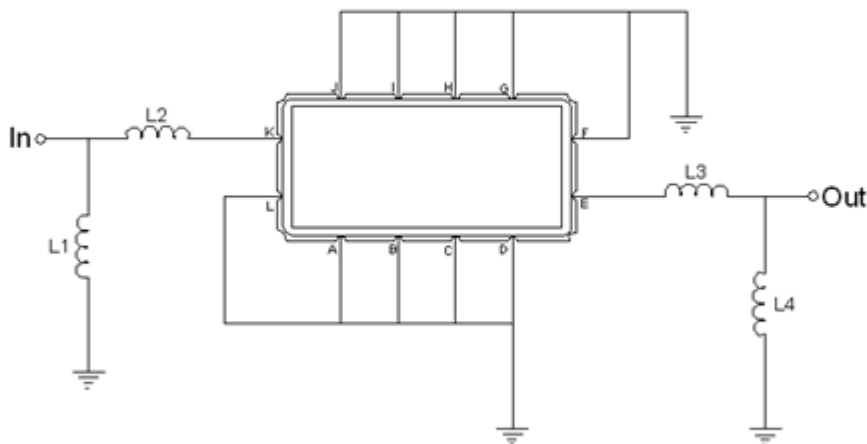
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA09102A:** 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



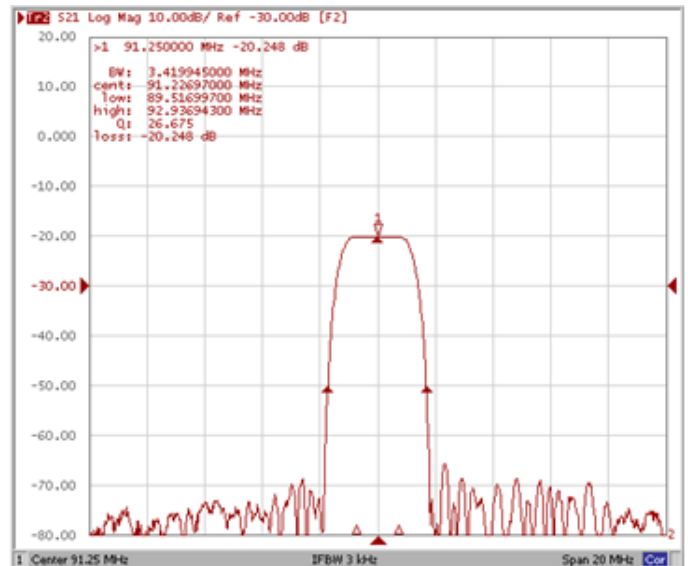
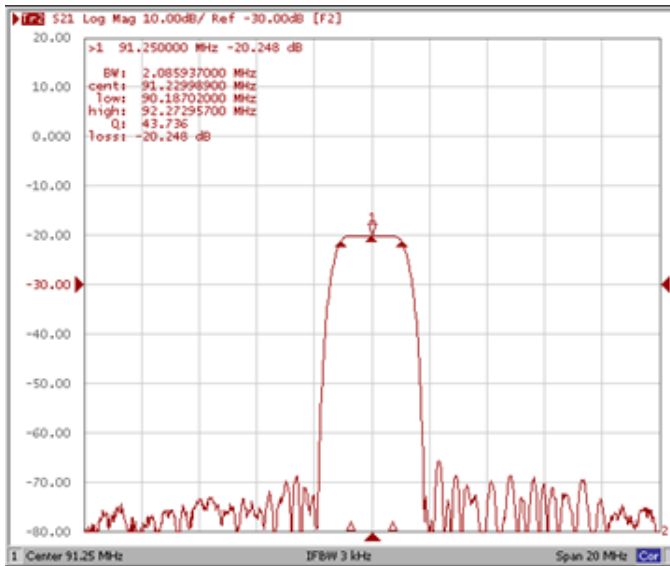
Test Fixture & Values	
<b>Input</b>	L1=82nH, L2=150nH
<b>Output</b>	L3=120nH, L4=68nH
<b>Source/Load Impedance</b>	50 Ω

## Frequency Characteristics

### Frequency Response

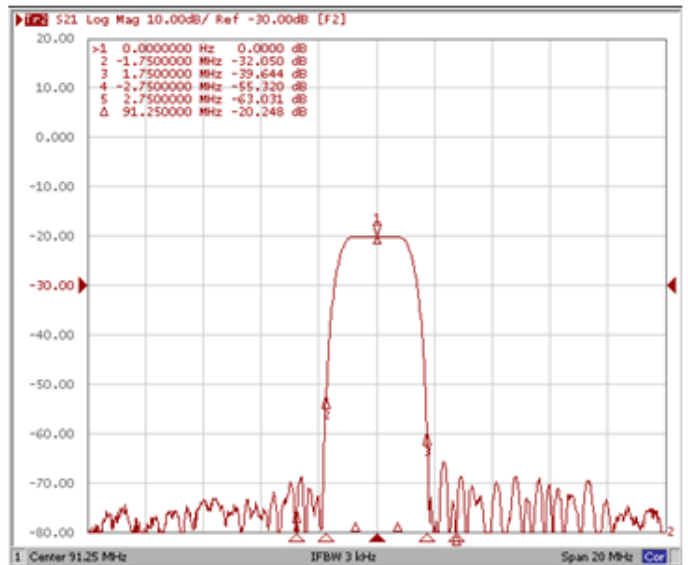
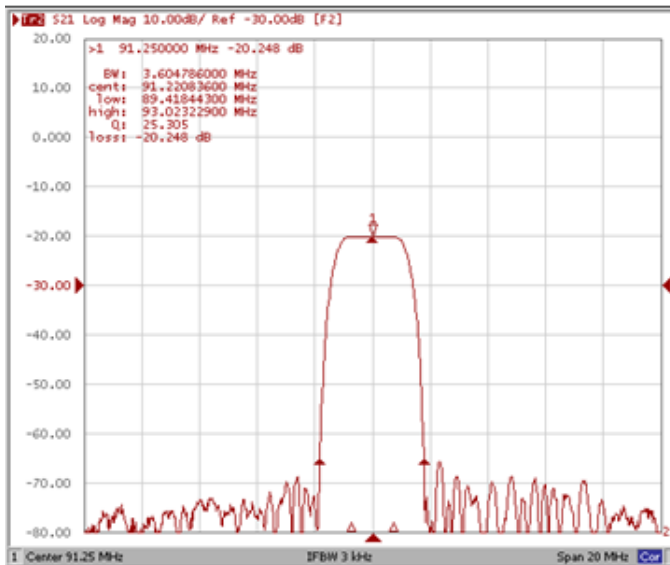
**Bandwidth at -1.0 dB**

**Bandwidth at -30.0 dB**



**Bandwidth at -45.0 dB**

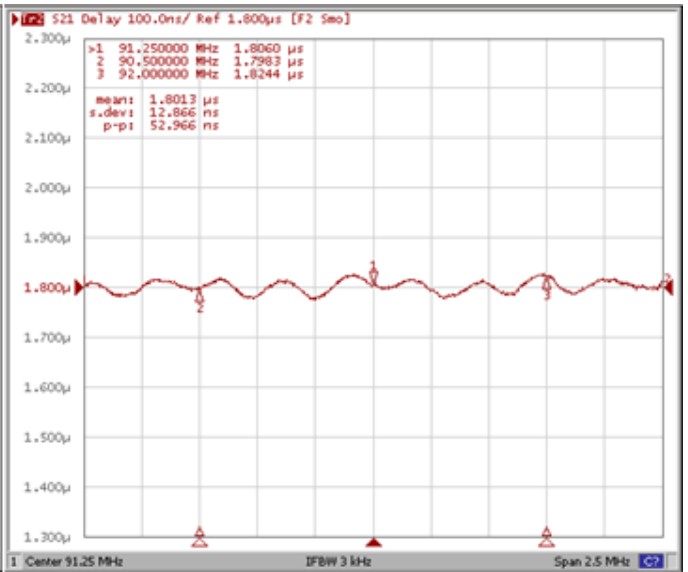
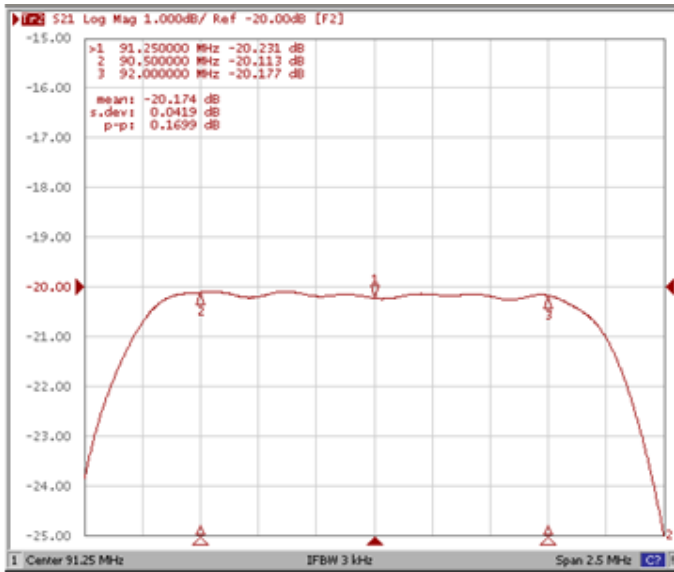
**Relative Attenuation Fo±1.75MHz/ Fo±2.75MHz**



## Frequency Response

**Ripple Variation Fo±0.75MHz**

**Group Delay Variation Fo±0.75MHz**



**Smith Chart**

**VSWR**

