- **91.50 MHz IF SAW Filter / 6.41 MHz Bandwidth**
- **Revision 0: 30 Jan. 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	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	V			
Length x Width	mm²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	91.35	91.50	91.65
Insertion Loss at Fo	dB	-	13.00	15.00
Group Delay Variation at Fo ± 2.5 MHz	nsec	-	38	80
Absolute Delay at Fo	usec	-	0.98	-
Passband Ripple Variation at Fo ± 2.5 MHz	dB	-	0.25	0.9
Bandwidth at -1dB	MHz	6.00	6.40	-
Bandwidth at -3dB	MHz	-	7.15	-
Bandwidth at -30dB	MHz	-	9.55	-
Bandwidth at -40dB	MHz	-	9.95	10.30
Ultimate Rejection	dB	45	49	-
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.

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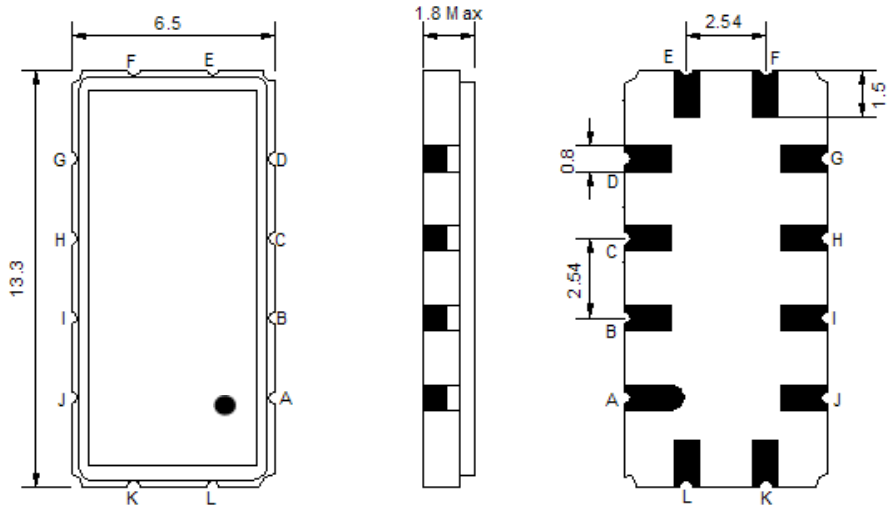
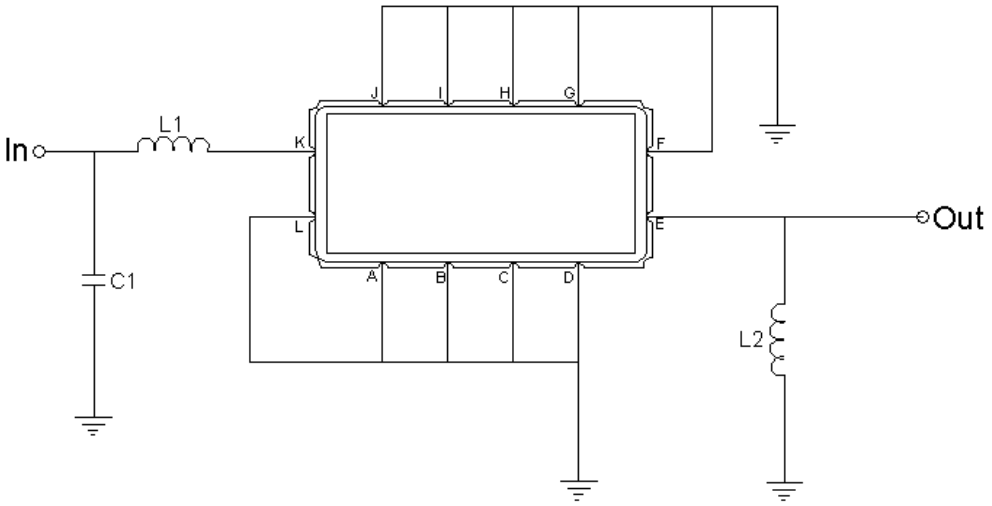
Package Dimensions



① TRANSKO: Brand
② TL09106A: 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



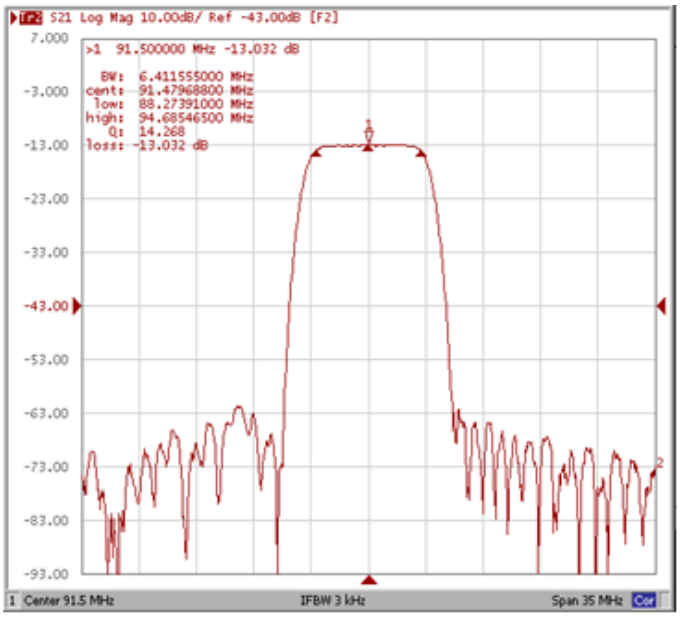
Test Fixture & Values	
Input	L1 = 47nH, C1=110pF
Output	L2 = 27nH
Source/Load Impedance	50 Ω

Frequency Characteristics

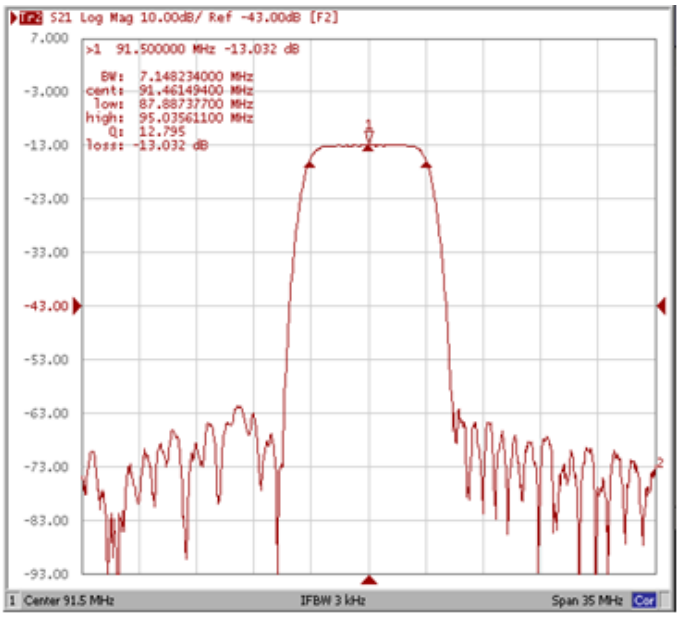
Frequency Response

Operating Temperature : +25 ℃

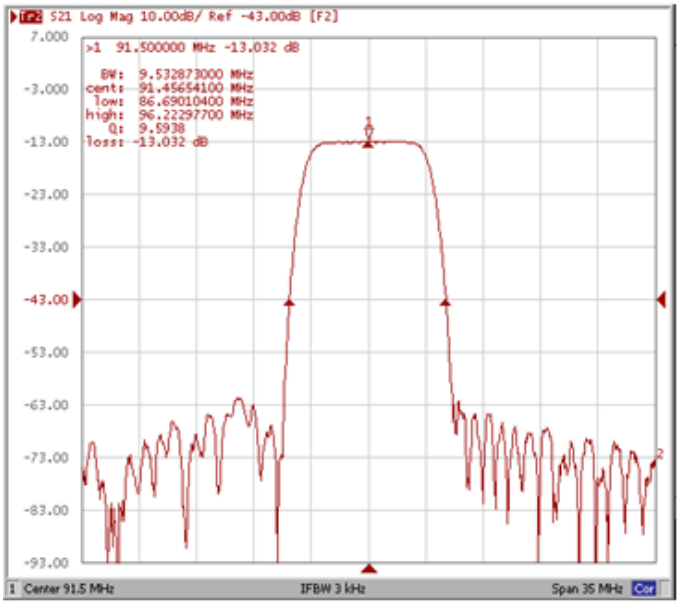
Bandwidth at –1.0 dB



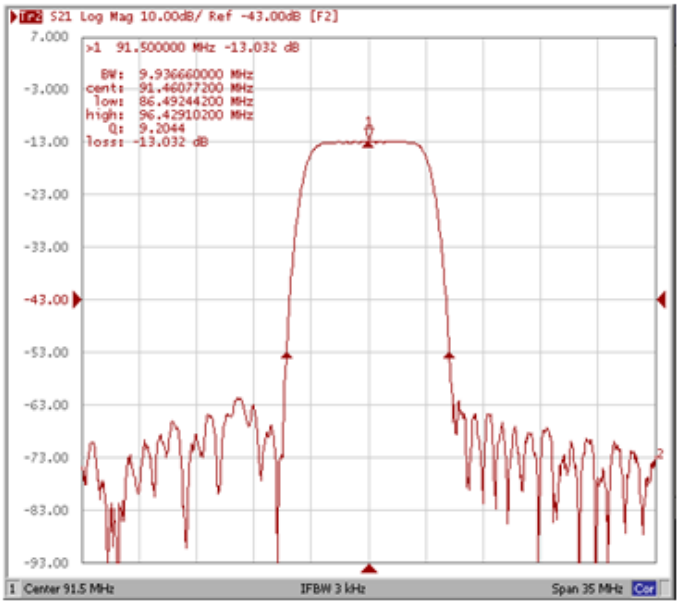
Bandwidth at –3.0 dB



Bandwidth at –30.0 dB

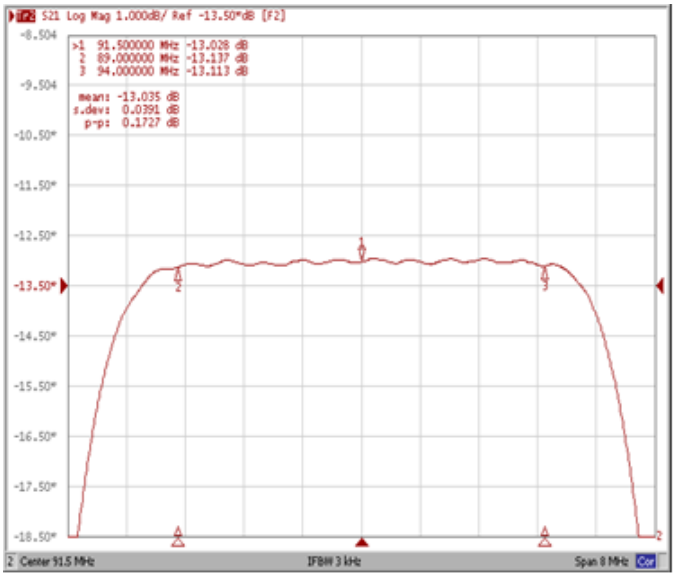


Bandwidth at –40.0 dB

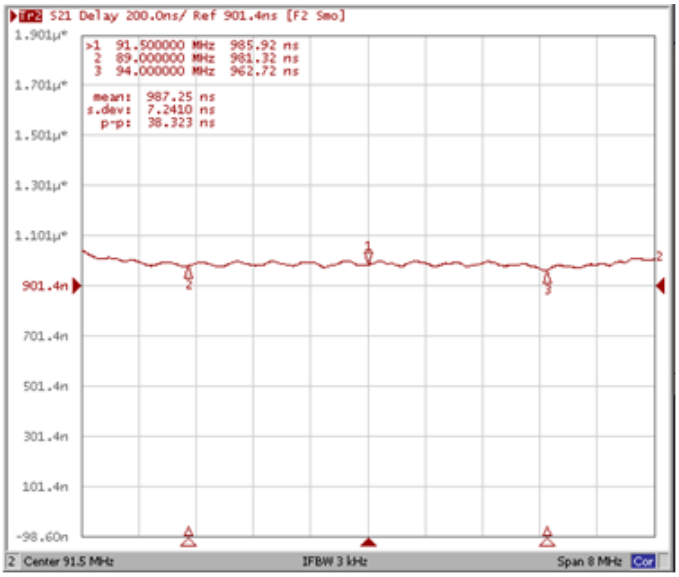


Frequency Response

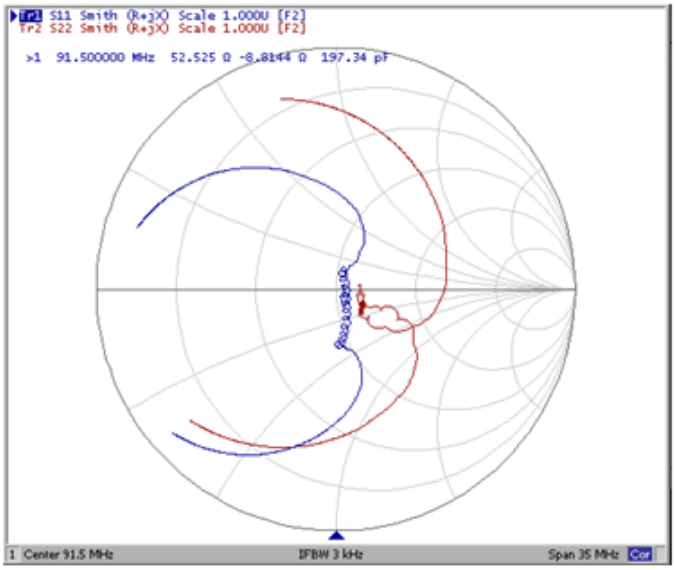
Ripple Variation Fo±2.5MHz



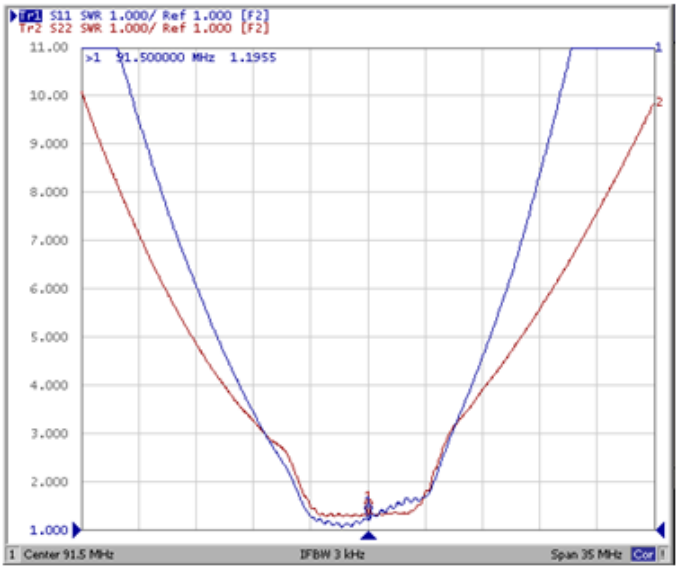
Group Delay Variation Fo±2.5MHz



Smith Chart



VSWR



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