- **95.0 MHz IF SAW Filter / 6.70 MHz Bandwidth**
- **Revision 0: 19 Jul. 2012**

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operating Temperature Range	°C	-	25	-
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	-	95.00	-
Insertion Loss at Fo	dB	-	9.20	10.5
Group Delay Variation at Fo ± 2.50 MHz	nsec	-	47	100
Absolute Delay at Fo	usec	-	1.35	-
Passband Ripple Variation at Fo ± 2.50 MHz	dB	-	0.45	1.00
Bandwidth at -1dB	MHz	6.30	6.70	-
Bandwidth at -3dB	MHz	-	7.35	-
Bandwidth at -40dB	MHz	-	9.75	10.00
Ultimate Rejection	dB	38	42	-
Relative Attenuation				
Fo ±5.40MHz	dB	38	42	-
Temperature Coefficient	ppm/°C	-	-86	-

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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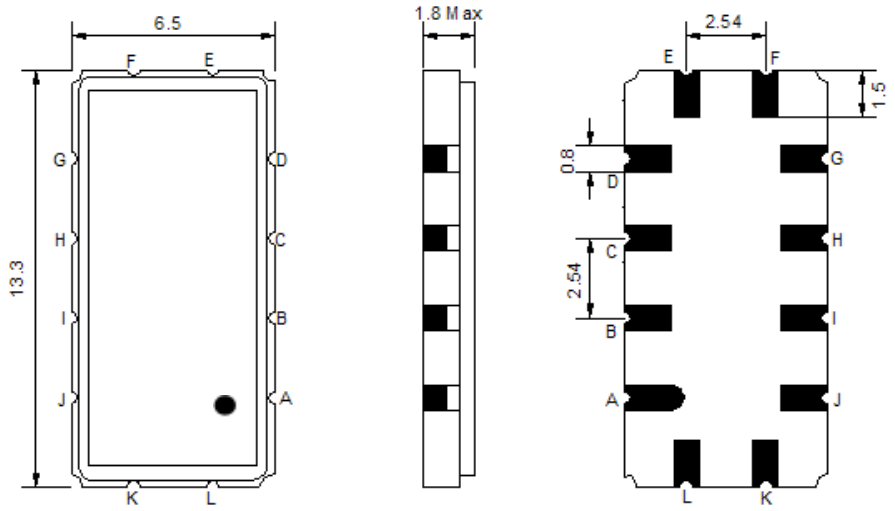
MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operating Temperature Range	°C	-40	-	55
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	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	-	95.00	-
Insertion Loss at Fo	dB	-	9.40	11.5
Group Delay Variation at Fo ± 2.50 MHz	nsec	-	75	150
Absolute Delay at Fo	usec	-	1.35	-
Passband Ripple Variation at Fo ± 2.50 MHz	dB	-	0.55	1.00
Bandwidth at -1dB	MHz	6.30	6.70	-
Bandwidth at -3dB	MHz	-	7.35	-
Bandwidth at -40dB	MHz	-	9.75	10.00
Ultimate Rejection	dB	38	42	-
Relative Attenuation				
Fo ±5.40MHz	dB	38	41	-
Temperature Coefficient	ppm/°C	-	-86	-

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.

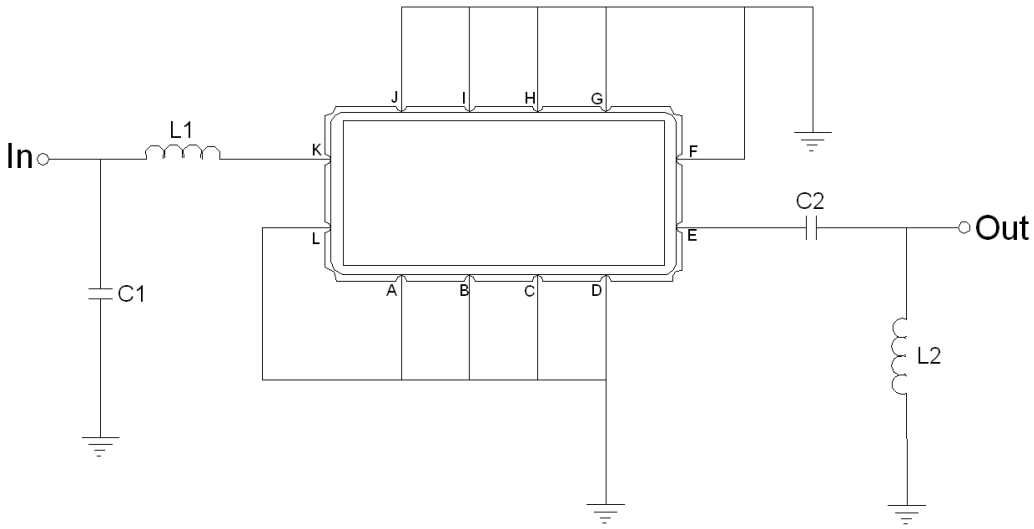
Package Dimensions



① **TRANSKO: Brand**
② **TL09506A: 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 = 56nH , C1=51pF
Output	L2 = 56nH , C2=68pF
Source/Load Impedance	50 Ω

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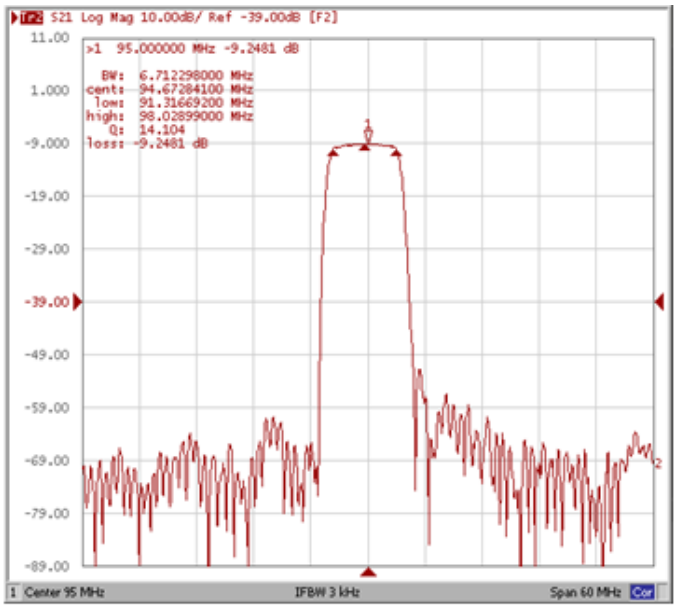
Frequency Characteristics

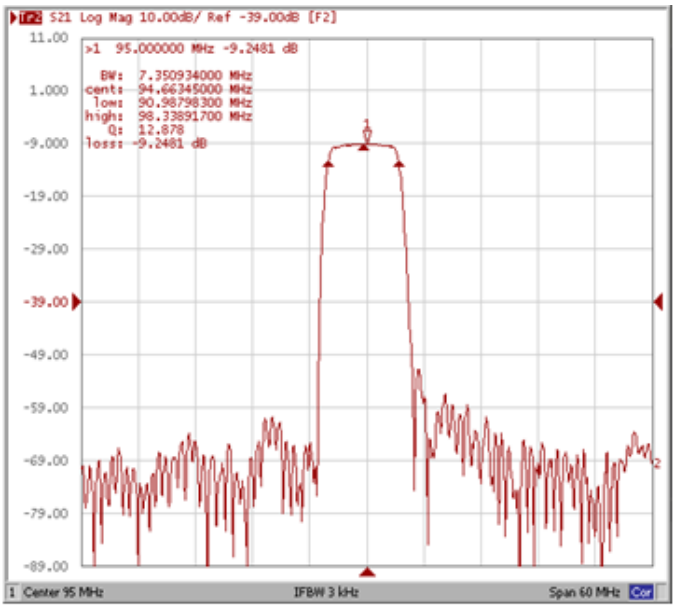
Frequency Response

Operating Temperature : +25 ℃

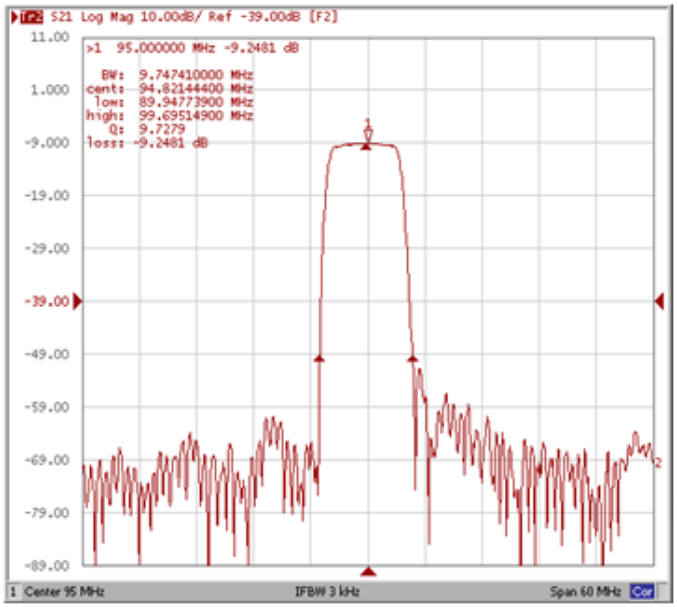
Bandwidth at –1.0 dB



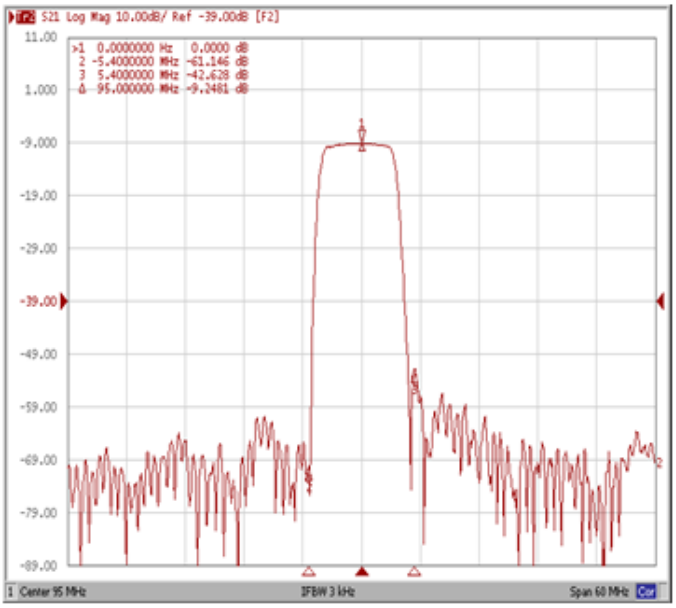
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB



Relative Attenuation Fo±5.40MHz



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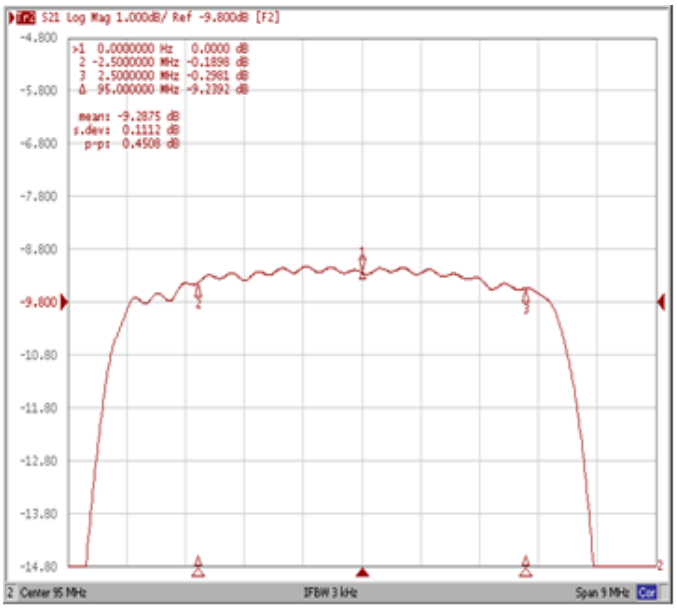
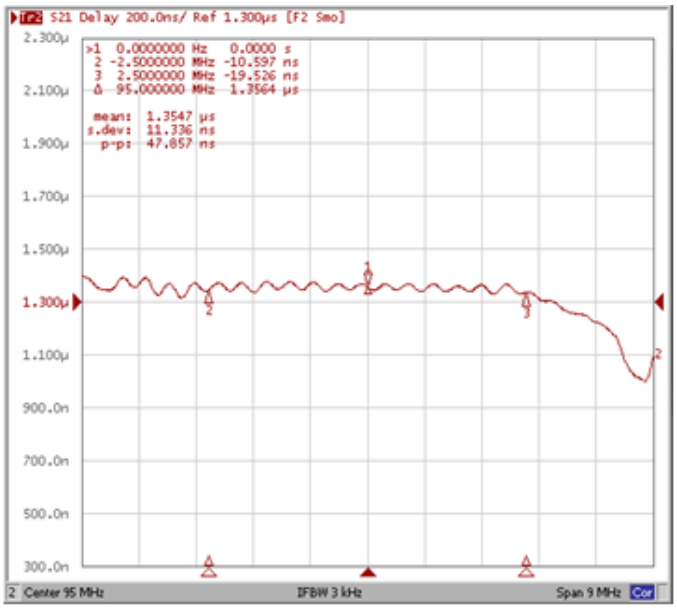
Frequency Response

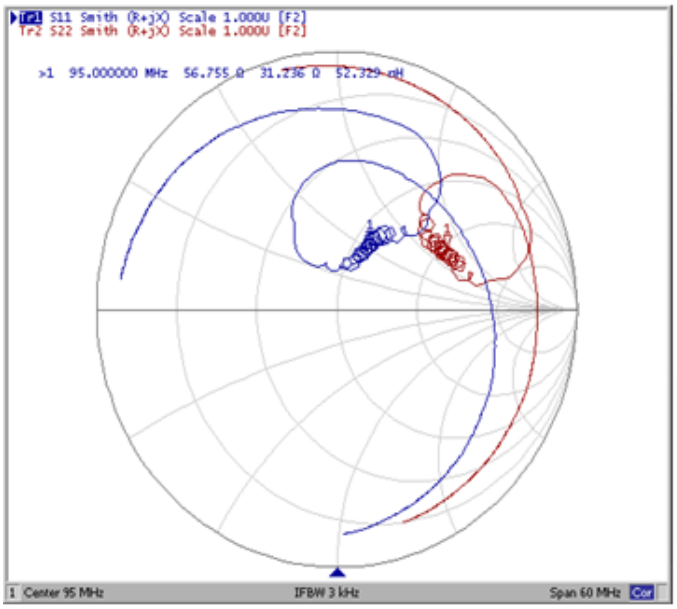
Ripple Variation Fo±2.50MHz



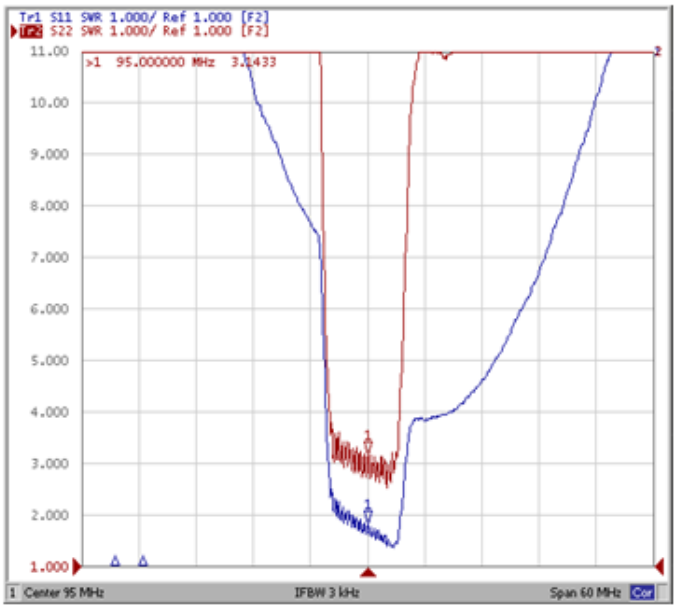
Group Delay Variation Fo±2.50MHz



Smith Chart



VSWR



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