- **75.0 MHz IF SAW Filter / 10.17 MHz Bandwidth**
- **Revision 0: 26 Nov. 2009**

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operating Temperature Range	°C	-20	-	60
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	-	75.0	-
Insertion Loss at Fo	dB	-	13.0	15.0
Group Delay Variation at Fo ± 4.42 MHz	nsec	-	35	60
Absolute Delay at Fo	usec	-	1.55	-
Passband Ripple Variation at Fo ± 4.42 MHz	dB	-	0.3	0.8
Bandwidth at -1dB	MHz	9.80	10.17	-
Bandwidth at -3dB	MHz	-	10.64	-
Bandwidth at -30dB	MHz	-	12.28	-
Bandwidth at -40dB	MHz	-	12.53	12.80
Ultimate Rejection	dB	43	48	-
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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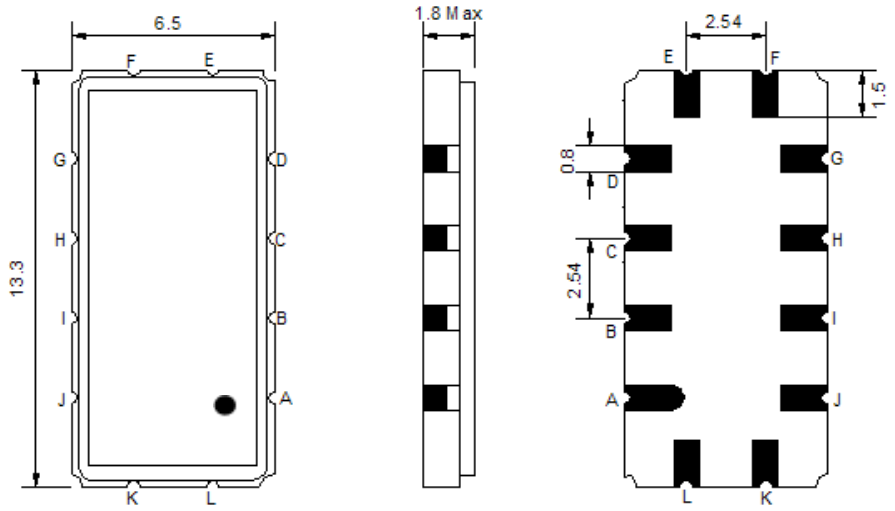
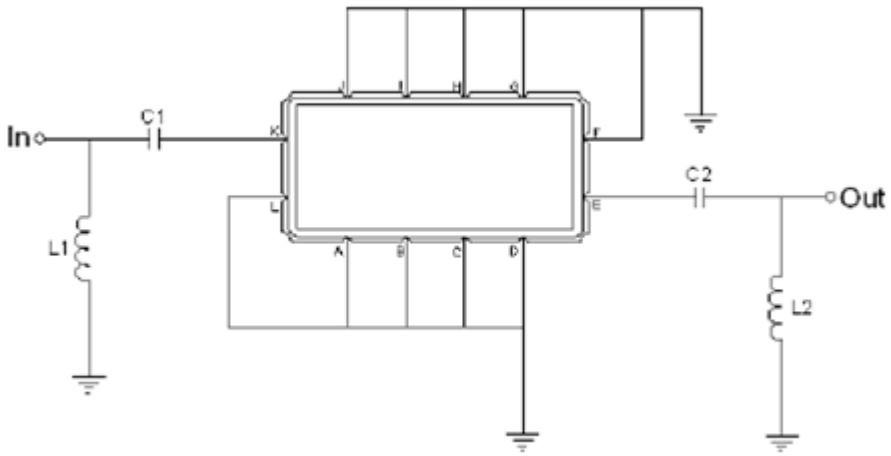
Package Dimensions



① **TRANSKO: Brand**
② **TL07510B: 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

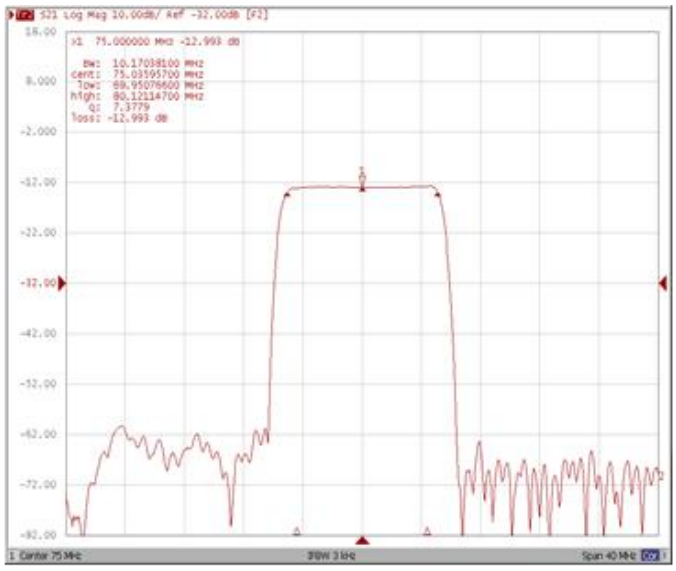


Test Fixture & Values	
Input	L1 = 82 nH, C1 = 200 pF
Output	L2 = 68 nH, C2 = 200 pF
Source/Load Impedance	50 Ω

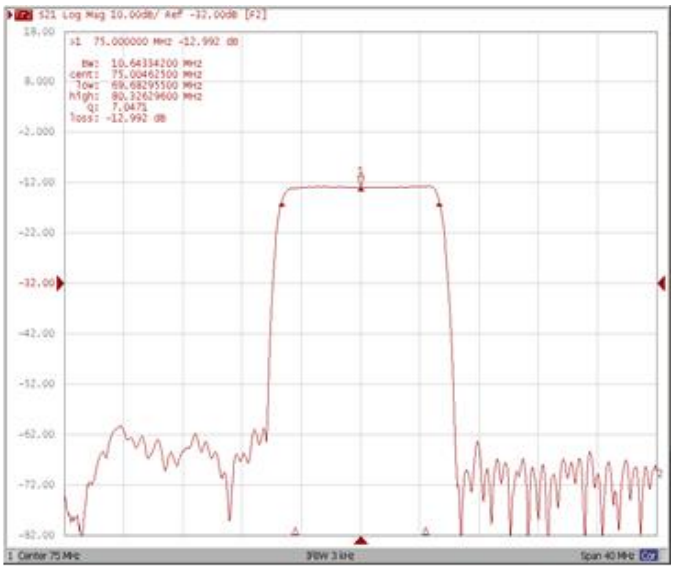
Frequency Characteristics

Frequency Response

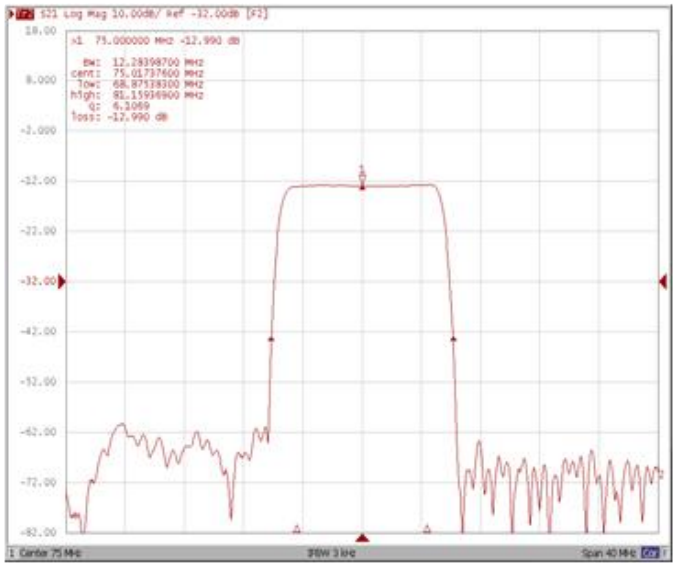
Bandwidth at –1.0 dB



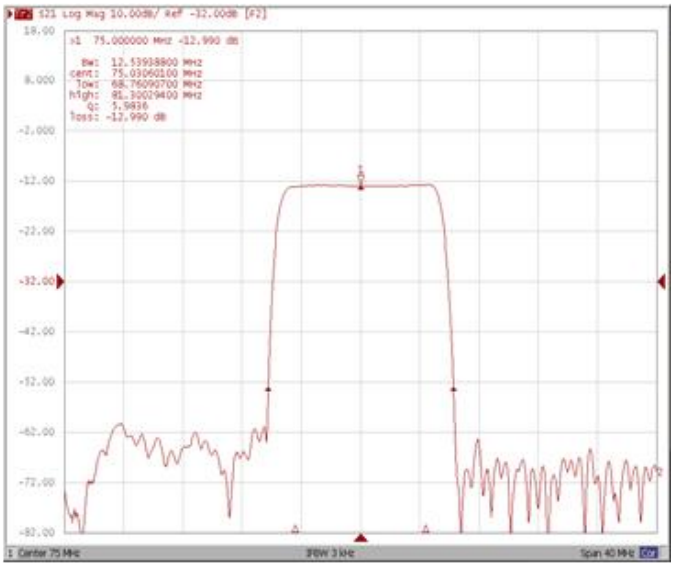
Bandwidth at –3.0 dB



Bandwidth at –30.0 dB

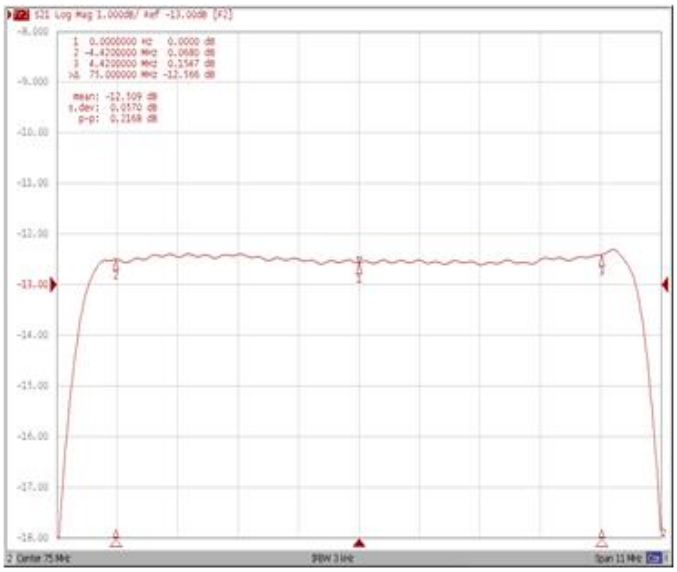


Bandwidth at –40.0 dB

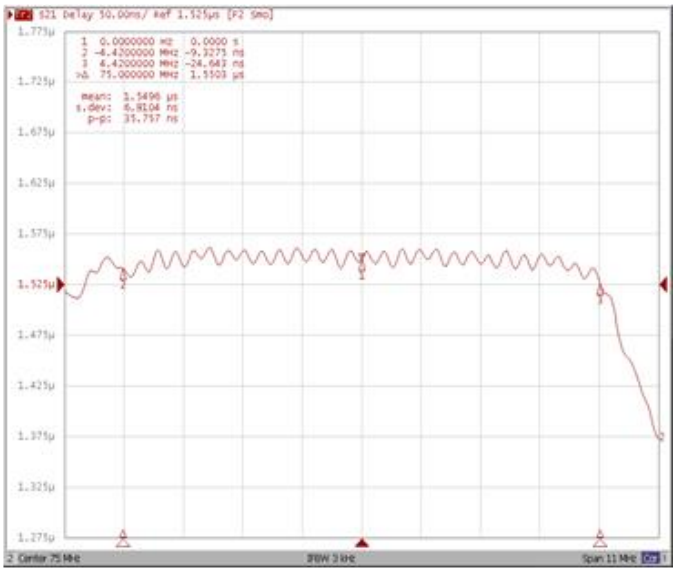


Frequency Response

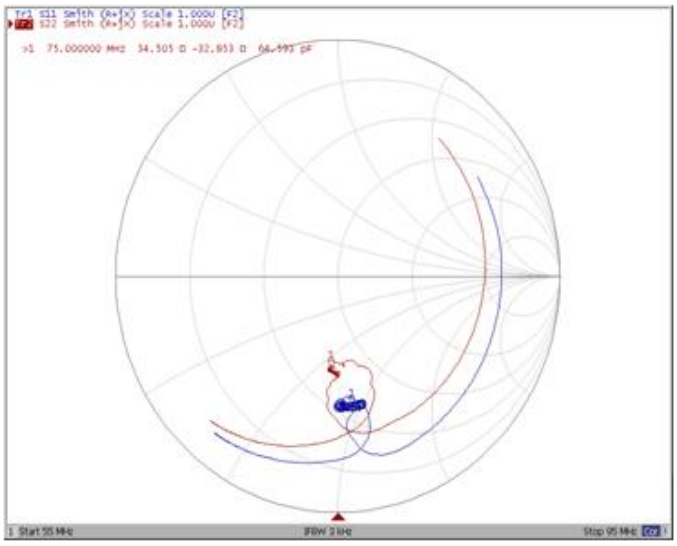
Ripple Variation Fo±4.42 MHz



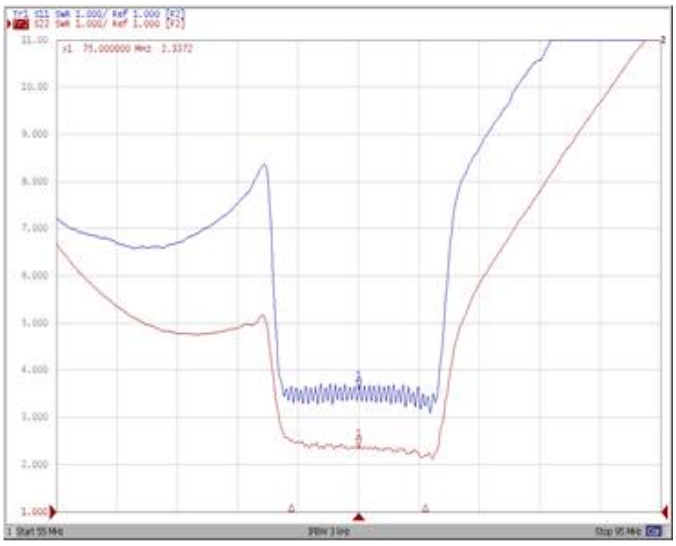
Group Delay Variation Fo±4.42 MHz



Smith Chart



VSWR



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