- **75.00 MHz IF SAW Filter / 21.60 MHz Bandwidth**
- **Revision 0: 16 Jun. 2009**

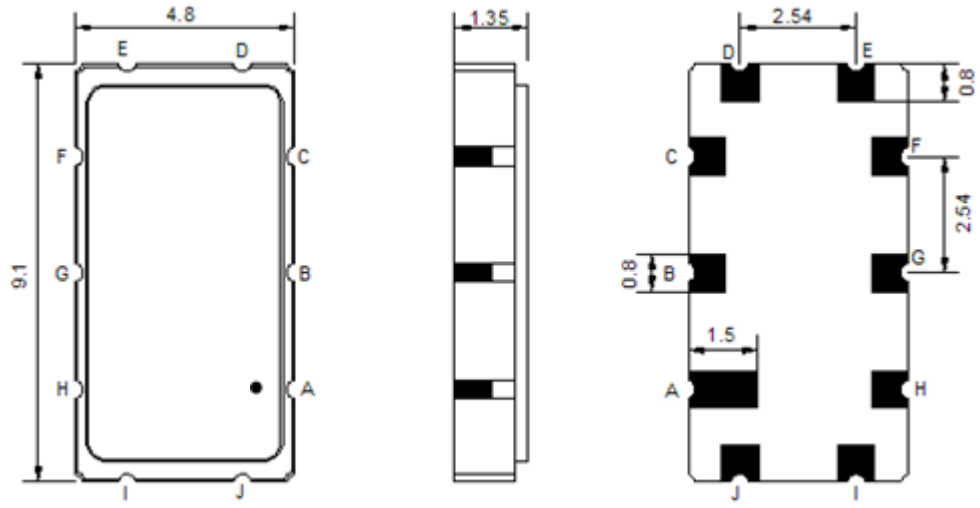
Electrical Characteristics

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	T			
Length x Width	mm^2	-	9.1 x 4.8	-
Height	mm	-	1.5	-

ELECTRICAL SPECIFICATION				
Parameters Description	**Unit**	**Minimum**	**Typical**	**Maximum**
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	14.0	16.0
Amplitude Ripple Variation at Fo ± 9.75 MHz	dB_{p-p}	-	0.3	0.8
Group Delay Variation at Fo ± 9.75 MHz	nsec	-	22	40
Absolute Delay at Fo	µsec	-	0.607	-
Temperature Coefficient	ppm/°C	-	-86	-
Bandwidth at –1.0 dB	MHz	21.30	21.60	-
Bandwidth at –3.0 dB	MHz	-	23.00	-
Bandwidth at –20.0 dB	MHz	-	26.90	27.20
Bandwidth at –40.0 dB	MHz	-	29.35	-
Relative Attenuation :				
Lower Sidelobe	dB	40	45	-
Upper Sidelobe	dB	40	45	-

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.

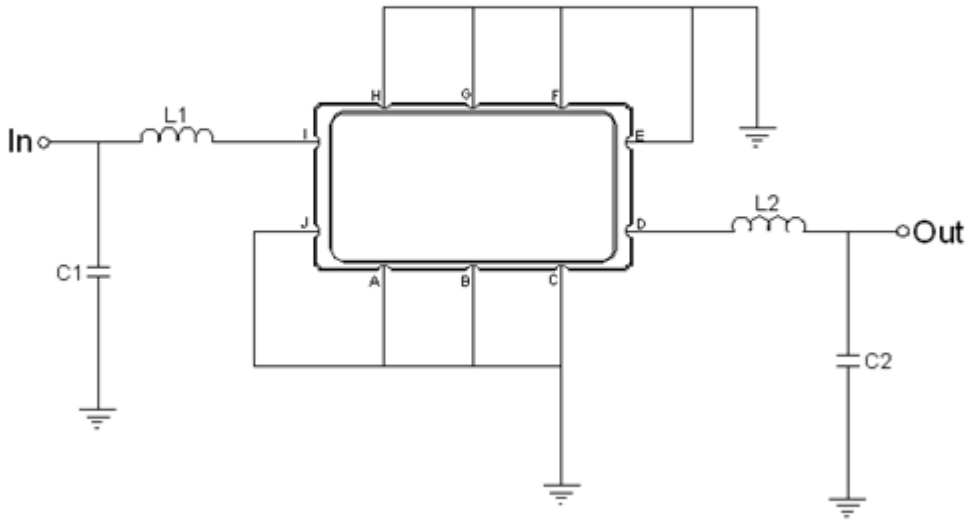
Package Dimensions



① **TRANSKO: Brand**
② **TL07521C: Model Name**
③ **X : Date Code (Year)**
④ **Y : Date Code (Month)**
⑤ **Z : Date Code (Date)**
• **: Index Dot**

Pin Description	
A, B, C, E, F, G, H, J	Ground
I	Input
D	Output

Testing Environment

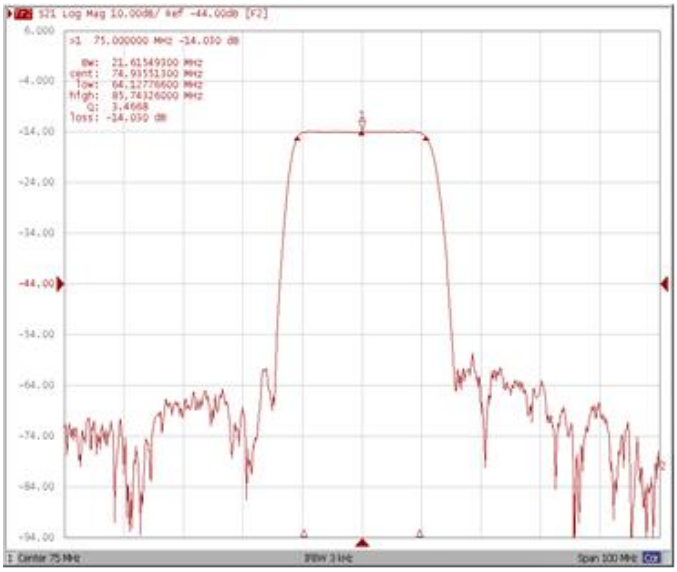


Test Fixture & Values	
Input	L1=180 nH , C1=10 pF
Output	L2=180 nH , C2=10 pF
Source/Load Impedance	50 Ω

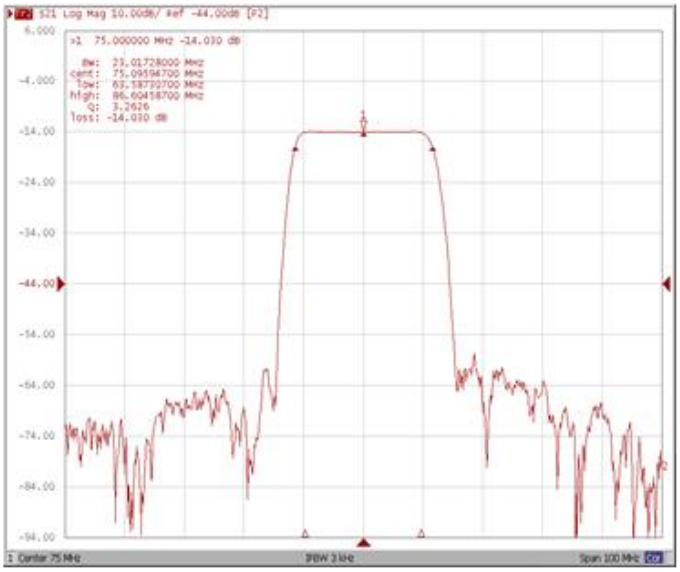
Frequency Characteristics

Frequency Response

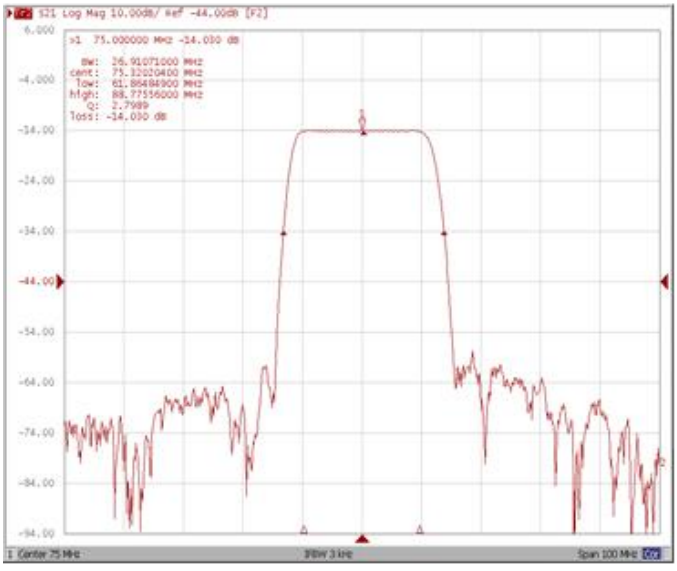
Bandwidth at –1.0 dB



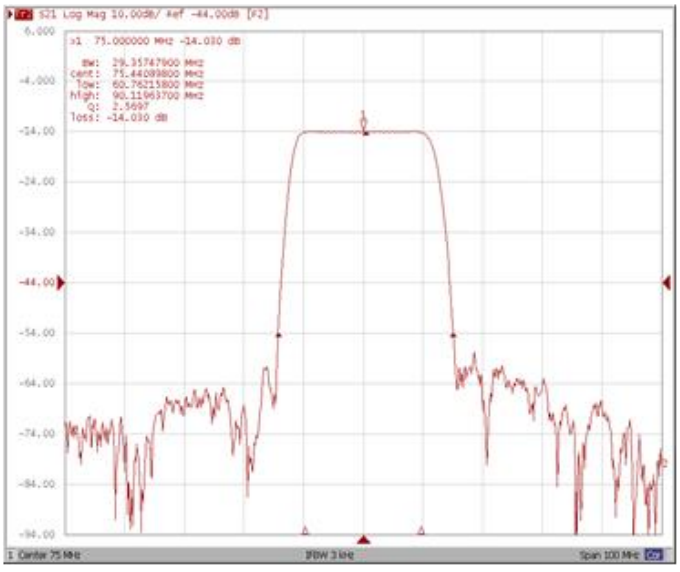
Bandwidth at –3.0 dB



Bandwidth at –30.0 dB

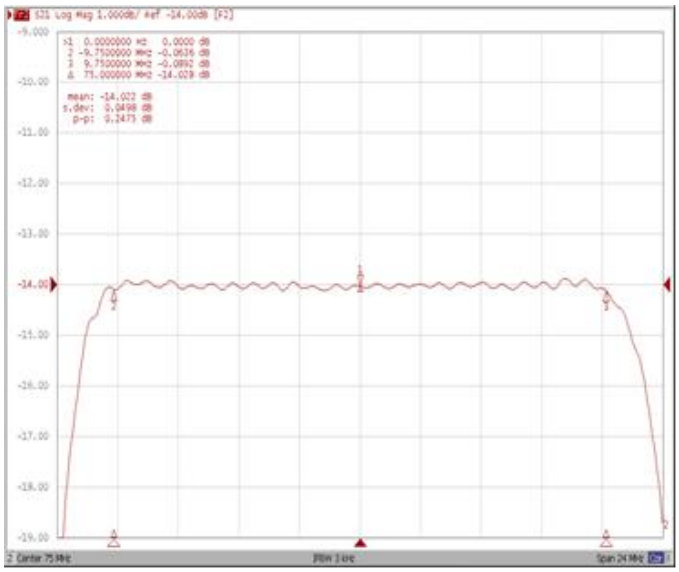


Bandwidth at –40.0 dB

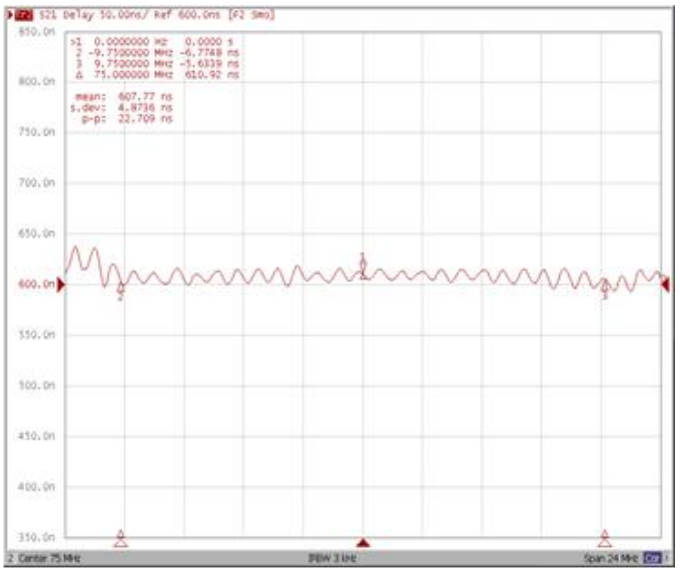


Frequency Response

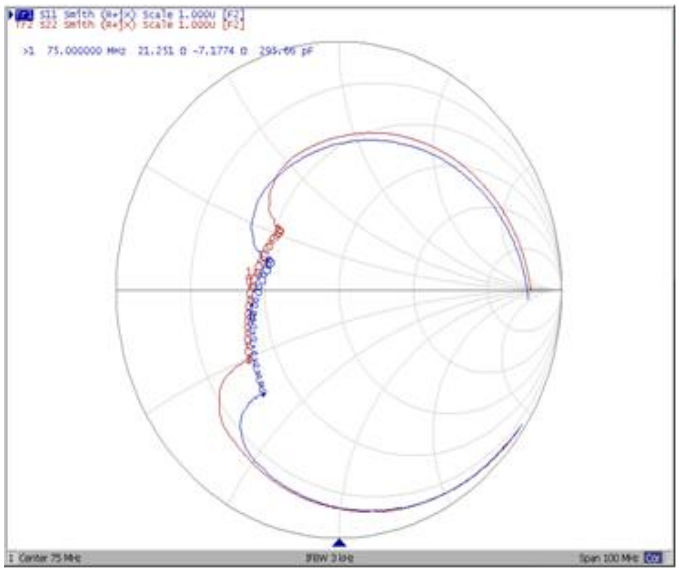
Ripple Variation Fo±9.75MHz



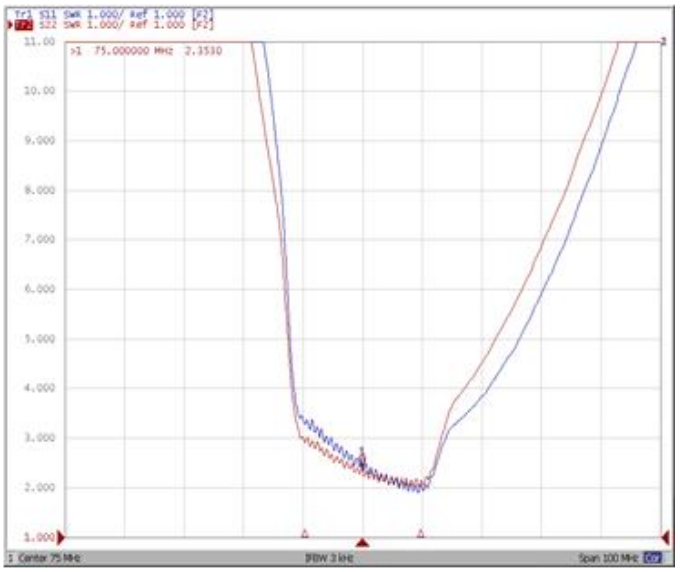
Group Delay Variation Fo±9.75MHz



Smith Chart



SWR



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