

- 75.00 MHz IF SAW Filter / 25.0 MHz Bandwidth
- Revision 0: 23 Jan. 2008

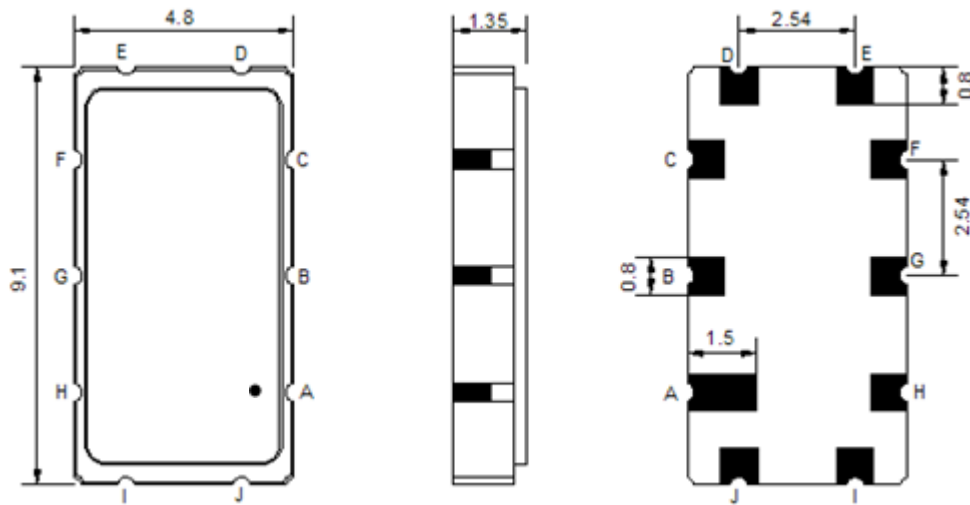
Electrical Characteristics

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	-	17.0	18.0
Amplitude Ripple Variation at Fo ± 12.5 MHz	dB _{p-p}	-	0.3	0.6
Group Delay Variation at Fo ± 12.5 MHz	nsec	-	20	35
Absolute Delay at Fo	µsec	-	0.83	-
Temperature Coefficient	ppm/°C	-	-86	-
Bandwidth at -1.0 dB	MHz	-	27.20	-
Bandwidth at -3.0 dB	MHz	-	28.20	-
Bandwidth at -30.0 dB	MHz	-	32.40	33.0
Relative Attenuation				
Lower Sidelobe	dB	30	40	-
Upper Sidelobe	dB	30	40	-

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.

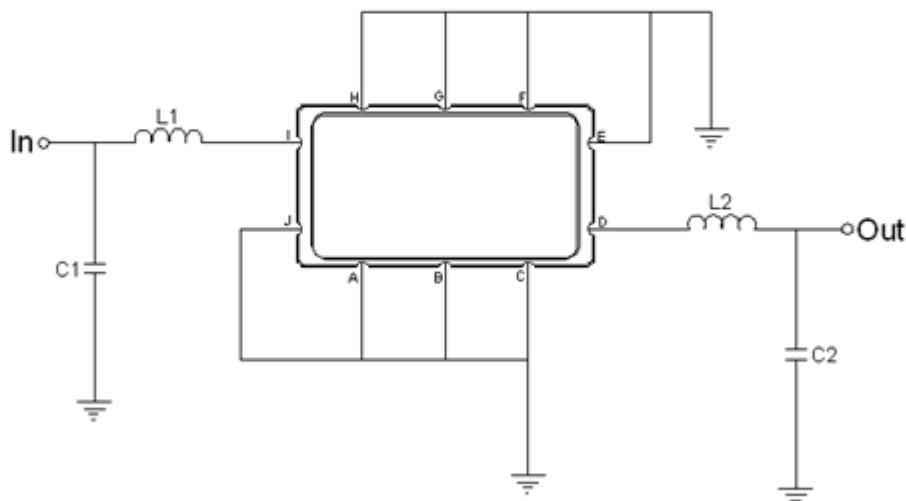
Package Dimensions



- ① TRANSKO: Brand
- ② TL07527B: 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

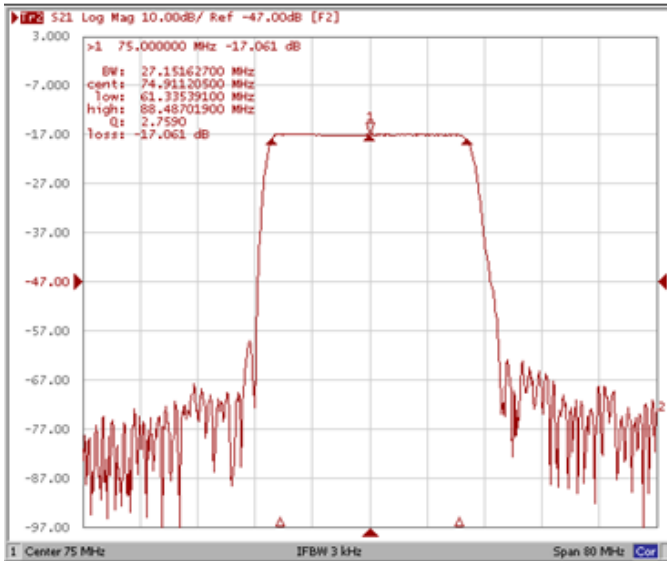


Test Fixture & Values	
Input	L1=120 nH, C1=33 pF
Output	L2=150 nH, C2=20 pF
Source/Load Impedance	50 Ω

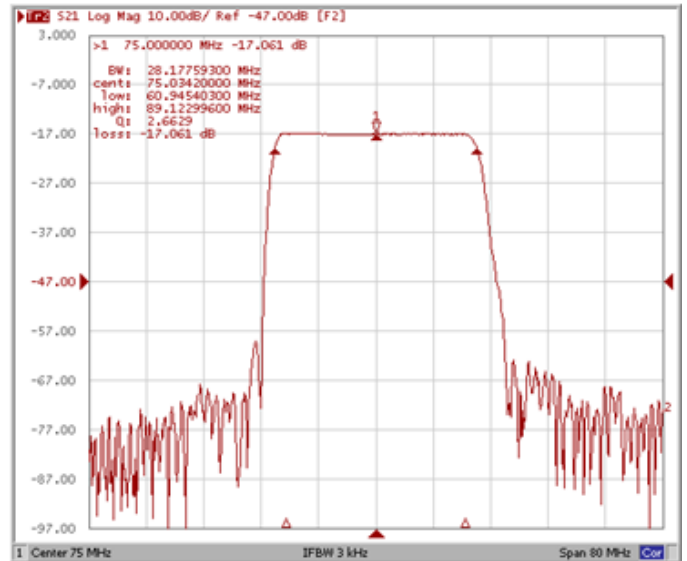
Frequency Characteristics

Frequency Response

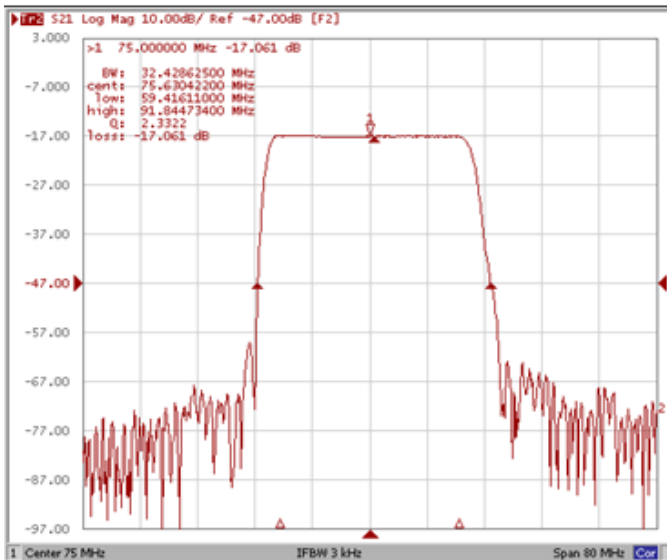
Bandwidth at -1.0 dB



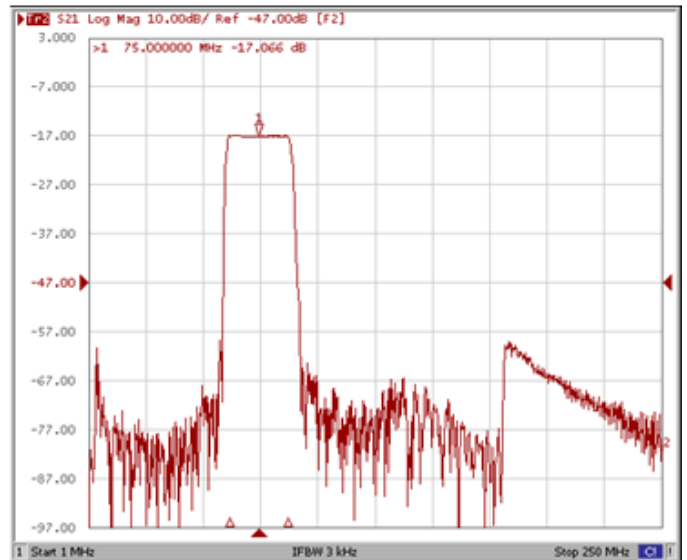
Bandwidth at -3.0 dB



Bandwidth at -30.0 dB

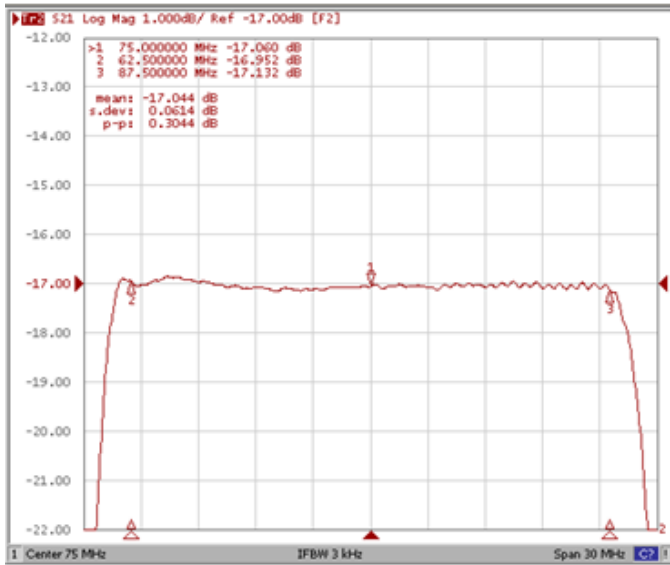


Wide-Band

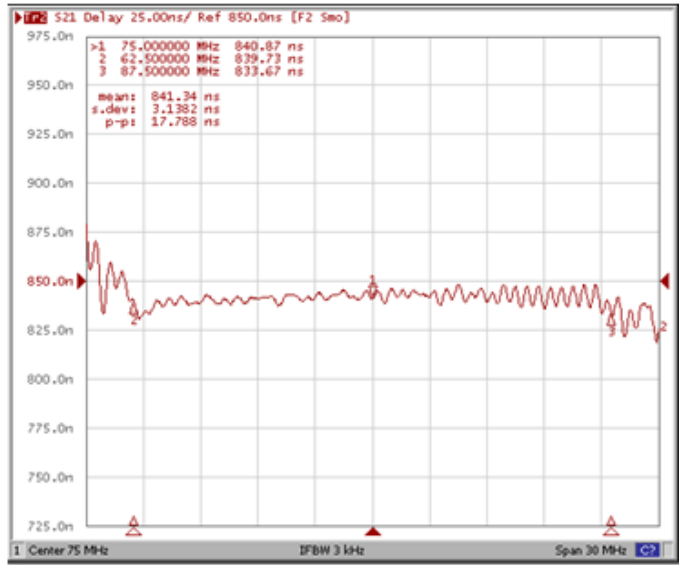


Frequency Response

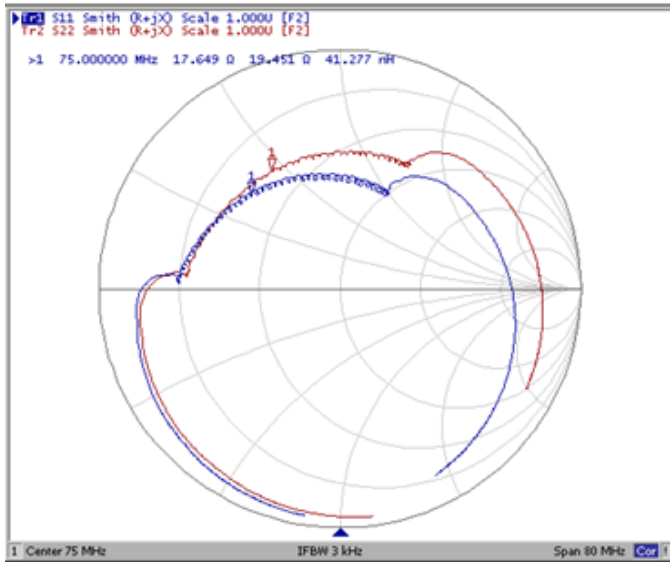
Ripple Variation Fo±12.5MHz



Group Delay Variation Fo±12.5MHz



Smith Chart



SWR

