

- 75.0 MHz IF SAW Filter / 28.17 MHz Bandwidth
- Revision 0: 12 Aug. 2009

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-20	-	70
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	mm ²	-	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	-	14.20	16.00
Group Delay Variation at Fo±12.48MHz	ns	-	21	40
Absolute Delay Time at Fo	us	-	0.99	-
Amplitude Ripple at Fo±12.48MHz	dB	-	0.45	0.90
Bandwidth at -1dB	MHz	27.90	28.17	-
Bandwidth at -3dB	MHz	-	28.96	-
Bandwidth at -15dB	MHz	-	30.78	31.10
Bandwidth at -40dB	MHz	-	32.78	-
Relative Attenuation:				
Lower Sidelobe	dB	40	48	-
Upper Sidelobe	dB	40	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.

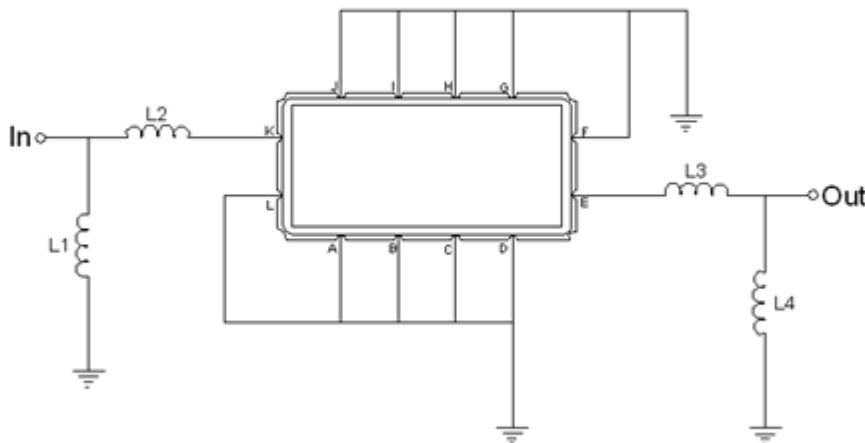
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL07528A:** 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

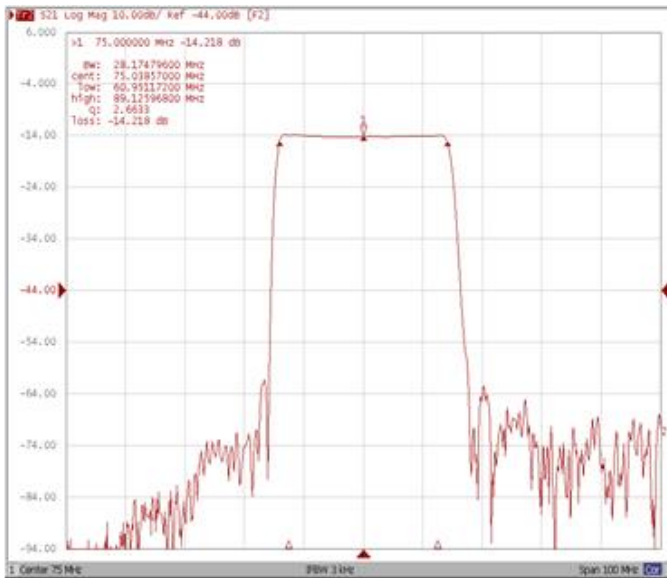


Test Fixture & Values	
Input	L1 = 68 nH, L2 = 8.2 nH
Output	L3 = 10 nH, L4 = 82 nH
Source/Load Impedance	50 Ω

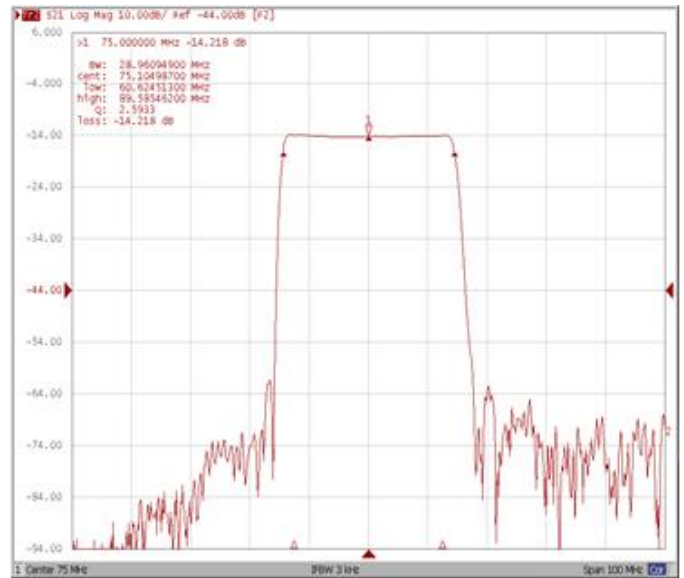
Frequency Characteristics

Frequency Response

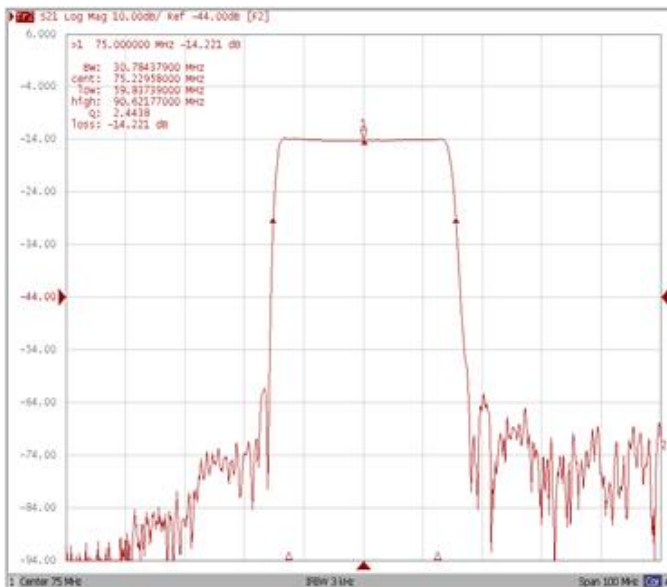
Bandwidth at -1.0 dB



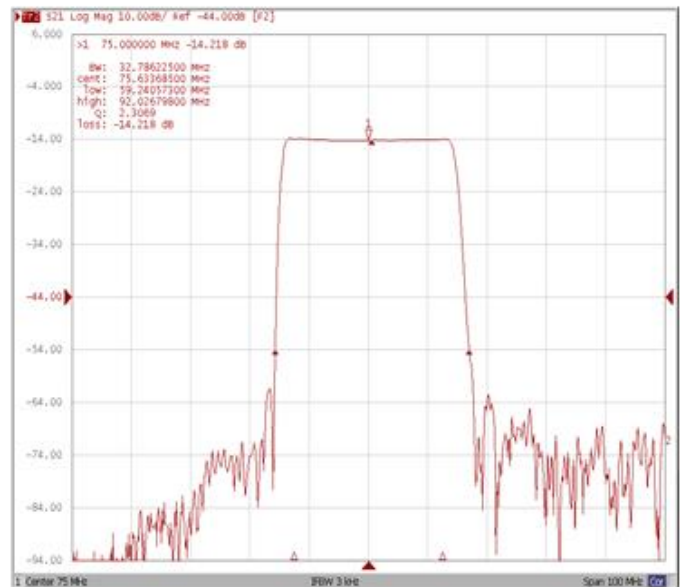
Bandwidth at -3.0 dB



Bandwidth at -15.0 dB

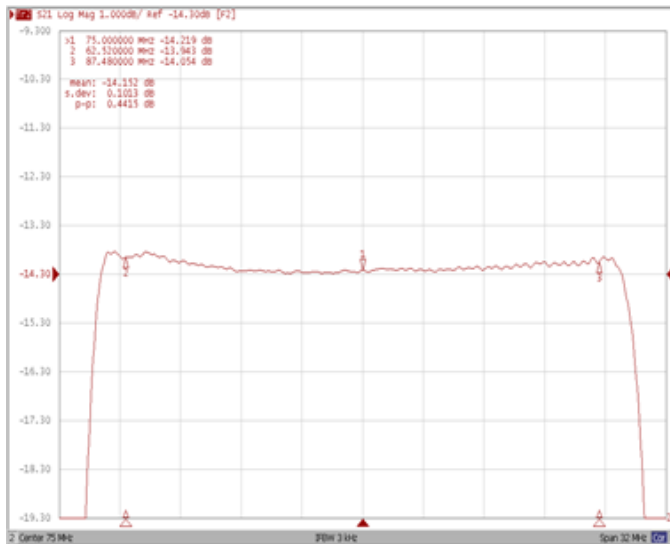


Bandwidth at -40.0 dB

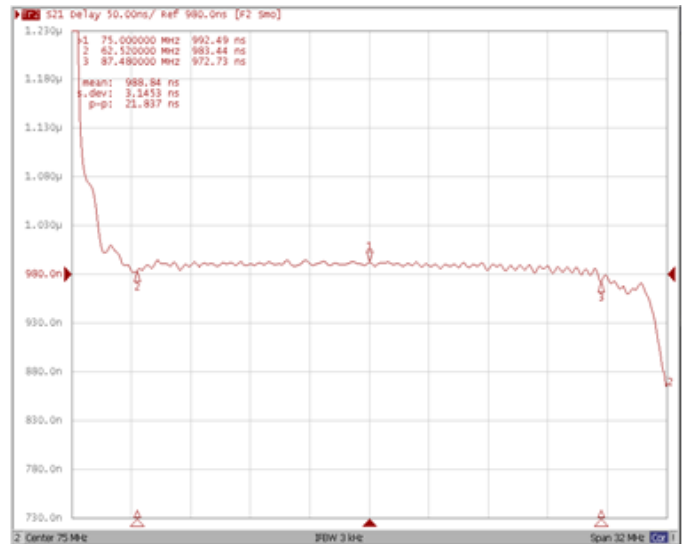


Frequency Response

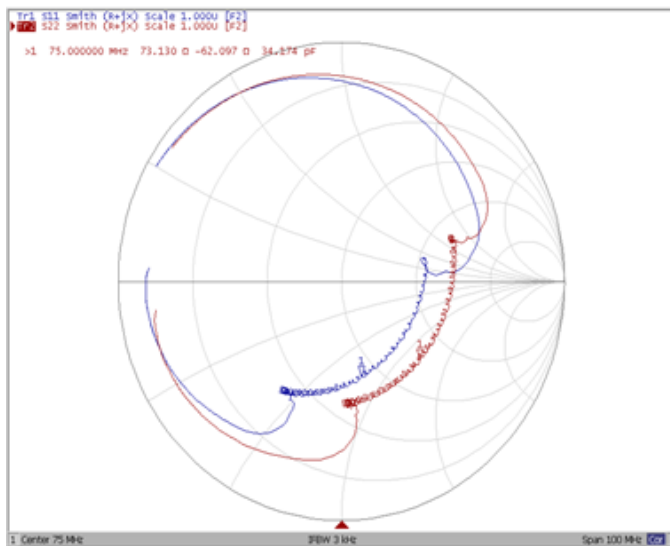
Ripple Variation Fo±12.48MHz



Group Delay Variation Fo±12.48MHz



Smith Chart



VSWR

