Transko TL07530AD1

RoHS Compliant

- **75.00 MHz IF SAW Filter / 30.25 MHz Bandwidth**
- **Revision 1: 16 Feb. 2009**

Electrical Characteristics

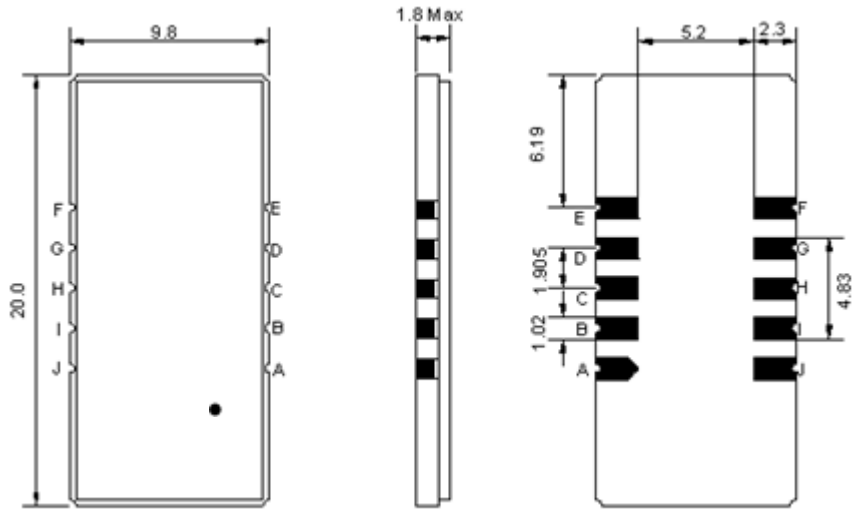
MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operating Temperature Range	°C	-10	-	70
Storage Temperature Range	°C	-30	-	80
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	D1			
Length x Width	mm²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	18.8	22.0
Group Delay Variation (Fo±14.52MHz)	ns	-	35	80
Absolute Delay	us	-	1.3	1.5
Passband Ripple (Fo±14.52MHz)	dB	-	0.40	0.90
Bandwidth at -1dB	MHz	29.50	30.25	-
Bandwidth at -5dB	MHz	-	31.45	31.76
Bandwidth at -10dB	MHz	-	32.23	-
Bandwidth at -20dB	MHz	-	33.18	-
Bandwidth at -40dB	MHz	-	34.62	-
Ultimate Rejection	dB	40	46	-
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.

Transko Electronics, Inc. 3981 E. Miraloma Ave., Anaheim CA 92806 USA
Tel: 714-528-8000 Fax: 714-528-8017 Website: www.transko.com E-mail: sales@transko.com

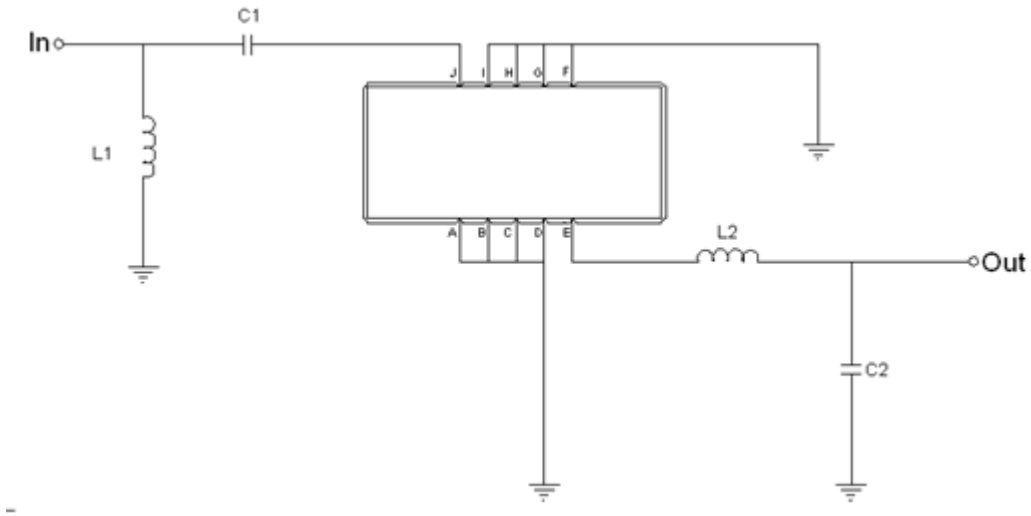
Package Dimensions



① **TRANSKO: Brand**
② **TL07530A: 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	Ground
J	Input
E	Output

Testing Environment

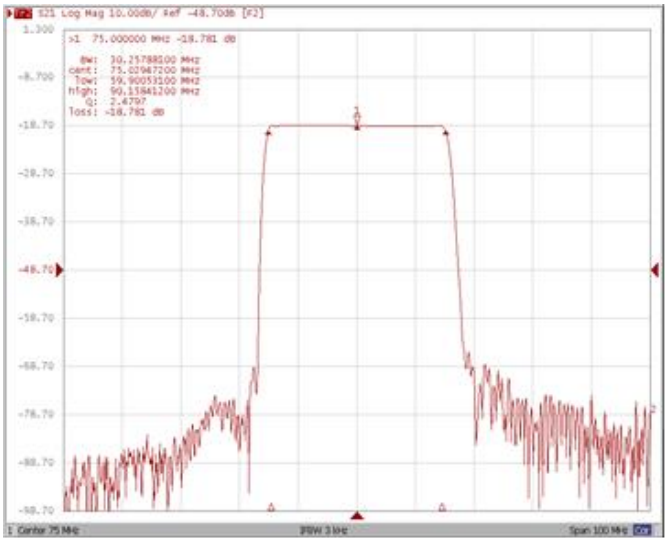


Test Fixture & Values	
Input	L1=68nH, C1=390pF
Output	L2=120nH, C2=43pF
Source/Load Impedance	50 Ω

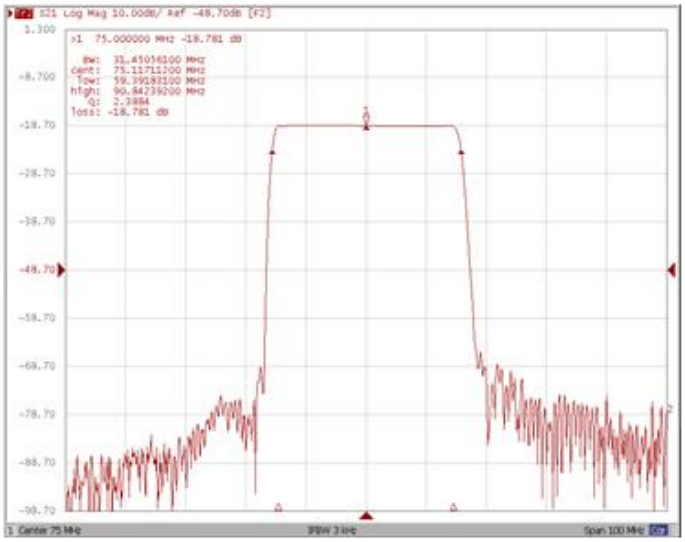
Frequency Characteristics

Frequency Response

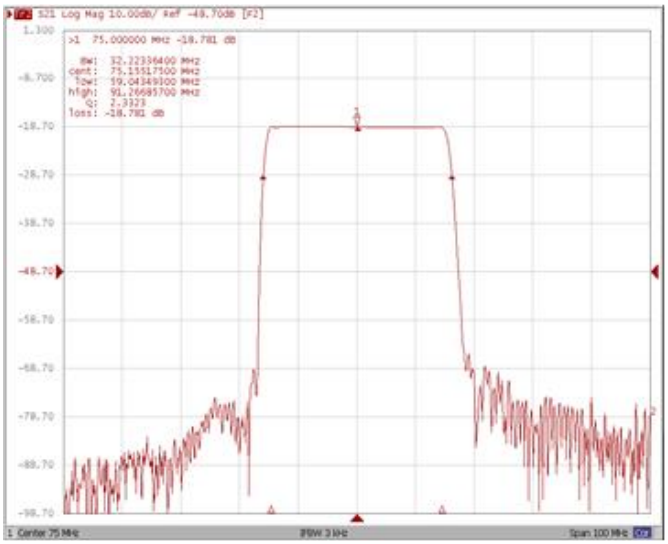
Bandwidth at –1.0 dB



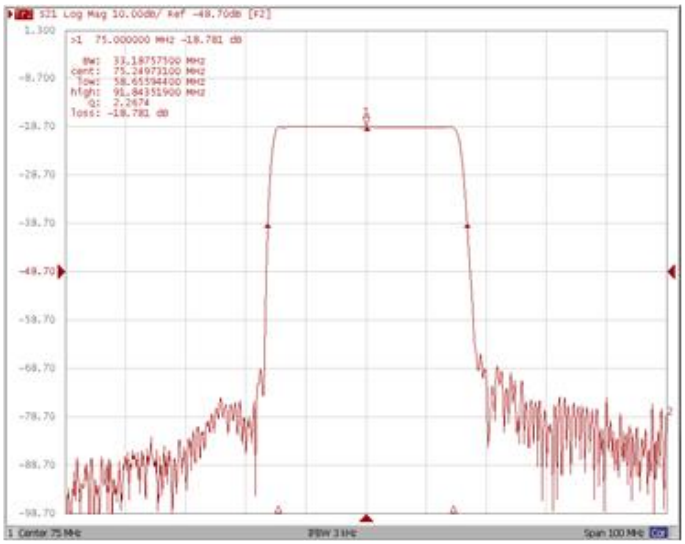
Bandwidth at –5.0 dB



Bandwidth at –10.0 dB



Bandwidth at –20.0 dB



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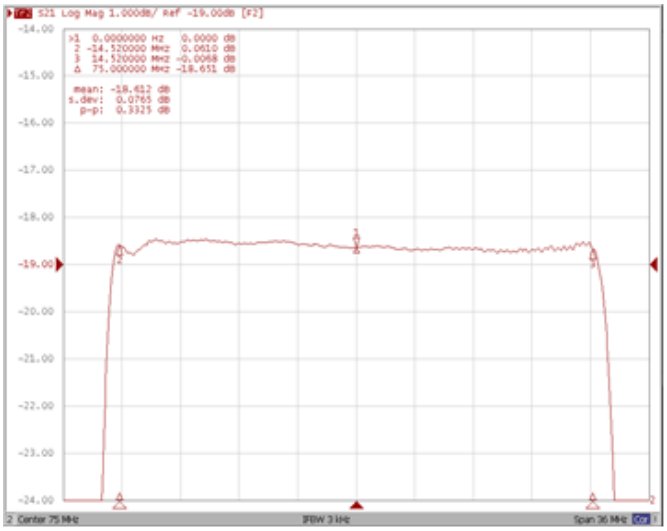
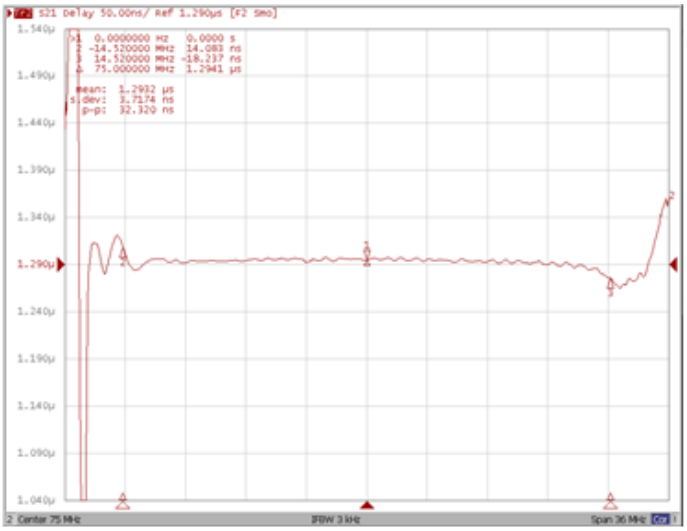
Frequency Response

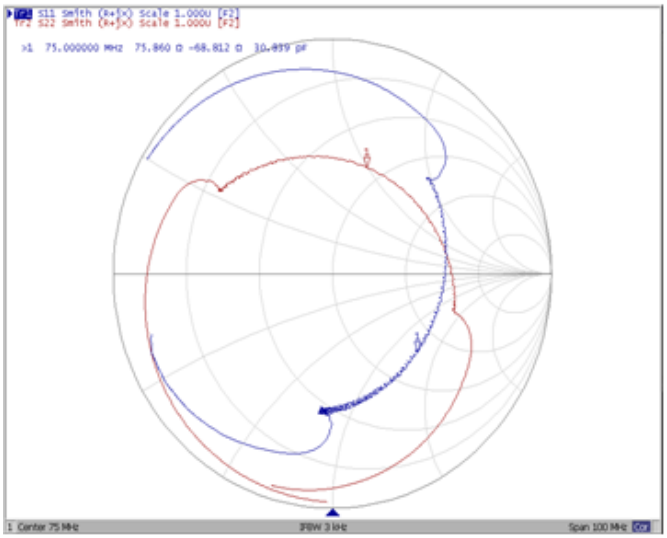
Ripple Variation Fo±14.52MHz



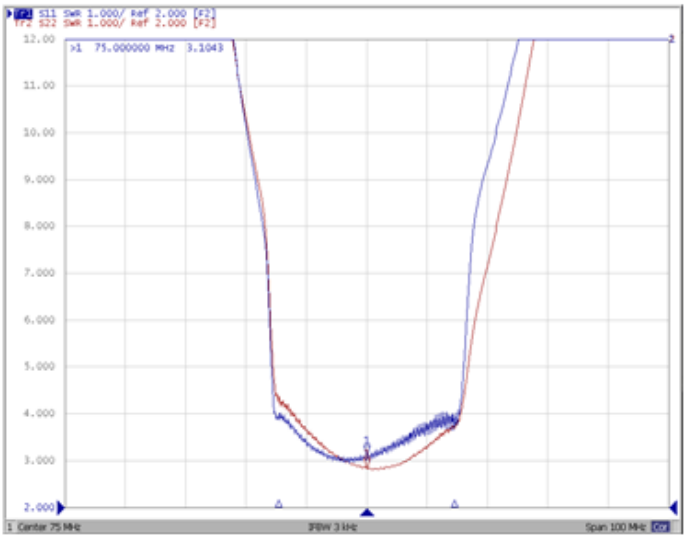
Group Delay Variation Fo±14.52MHz



Smith Chart



VSWR



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