Transko TL07042AV

RoHS Compliant

- **70.00 MHz IF SAW Filter / 42.2MHz Bandwidth**
- **Revision 0: 15 Dec. 2008**

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operating Temperature Range	°C	-30	-	80
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	-	70.0	-
Insertion Loss at Fo	dB	-	21.9	23.0
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple within fo ±20.0 MHz	dB_{p-p}	-	0.66	1.00
Group Delay Variation within fo ±20.0 MHz	nsec	-	10	30
Absolute Delay at Fo	µsec	-	0.95	-
Bandwidth at –1.0 dB	MHz	40.00	42.20	-
Bandwidth at –3.0 dB	MHz	43.00	43.85	-
Bandwidth at –40.0 dB	MHz	-	50.00	50.80
Relative Attenuation:				
0MHz ~ 45.35MHz	dB	40	45	-
97.05MHz ~ 120MHz	dB	30	35	

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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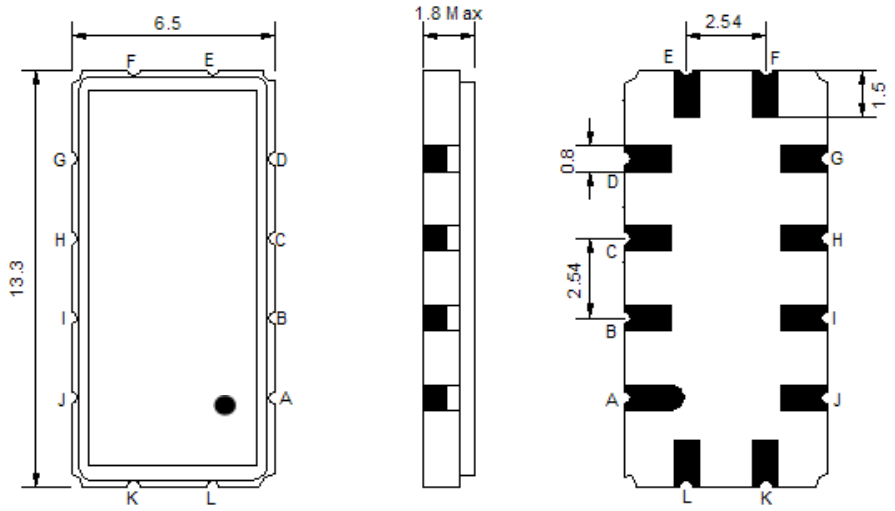
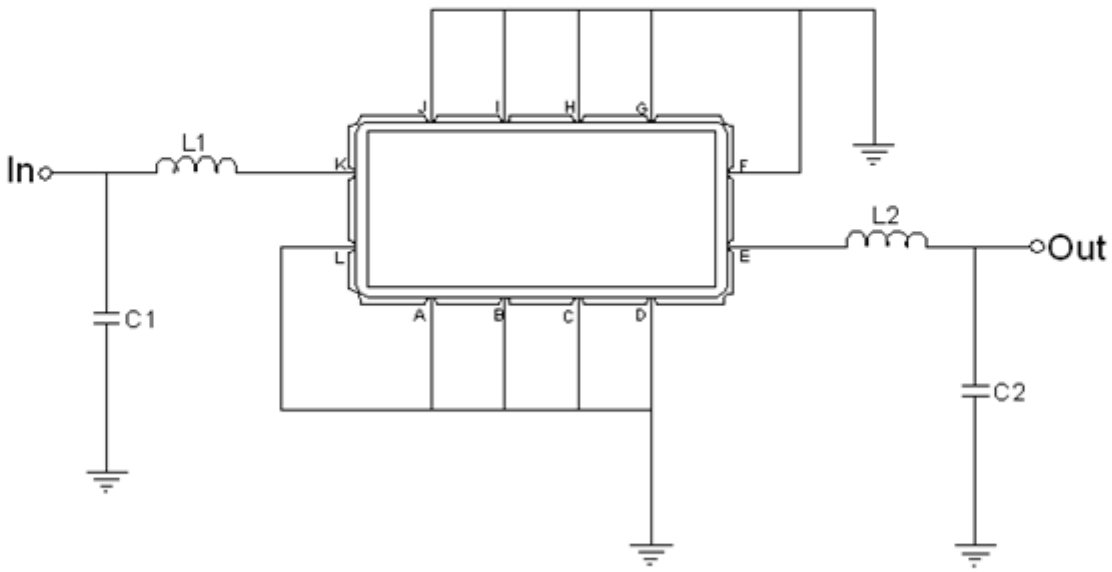
Package Dimensions



① **TRANSKO: Brand**
② **TL07042A: 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

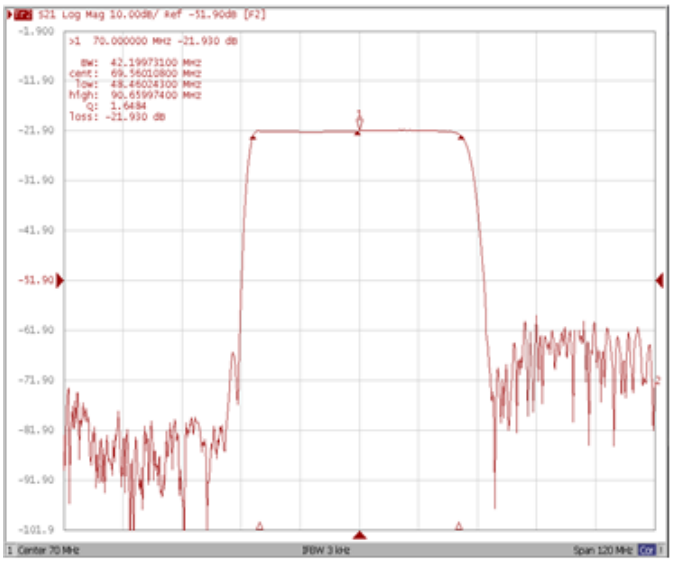


Test Fixture & Values	
Input	L1=150nH , C1=22pF
Output	L2=100nH , C2=24pF
Source/Load Impedance	50 Ω

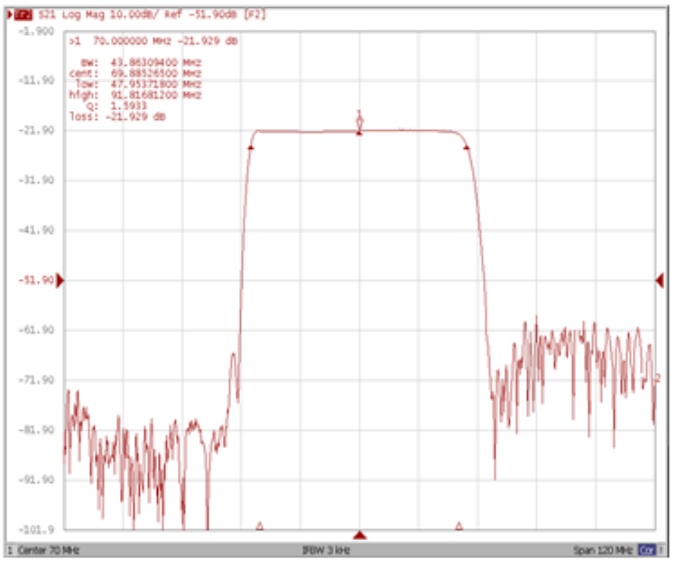
Frequency Characteristics

Frequency Response

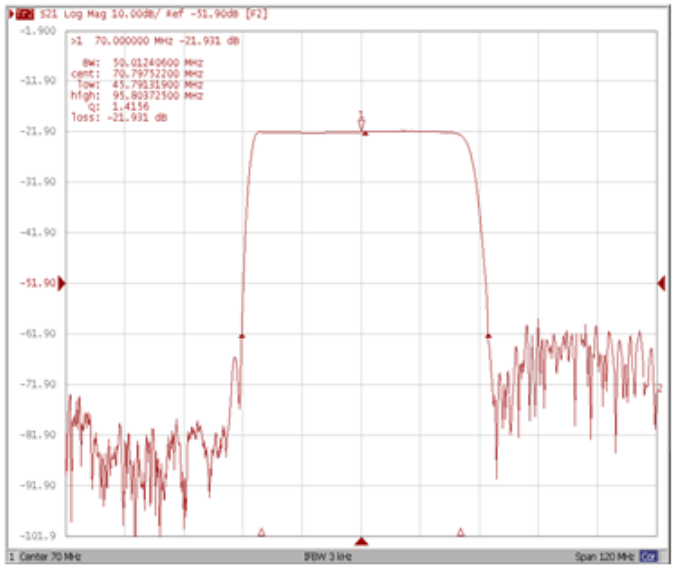
Bandwidth at –1.0 dB



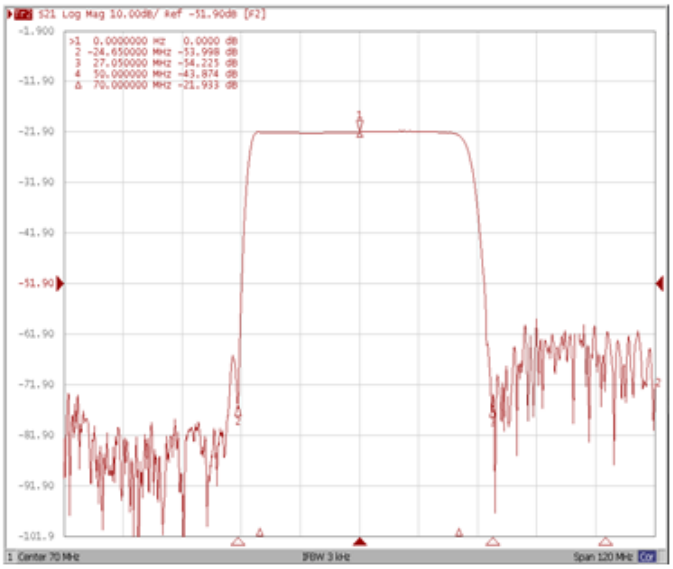
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB



Relative Attenuation



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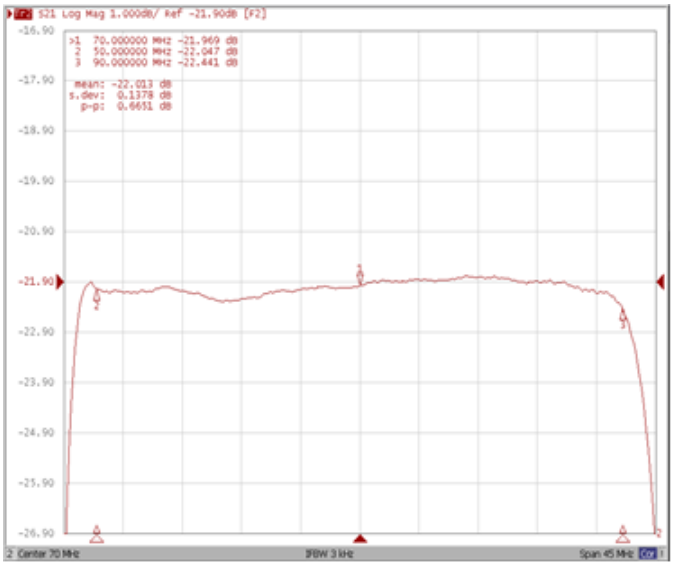
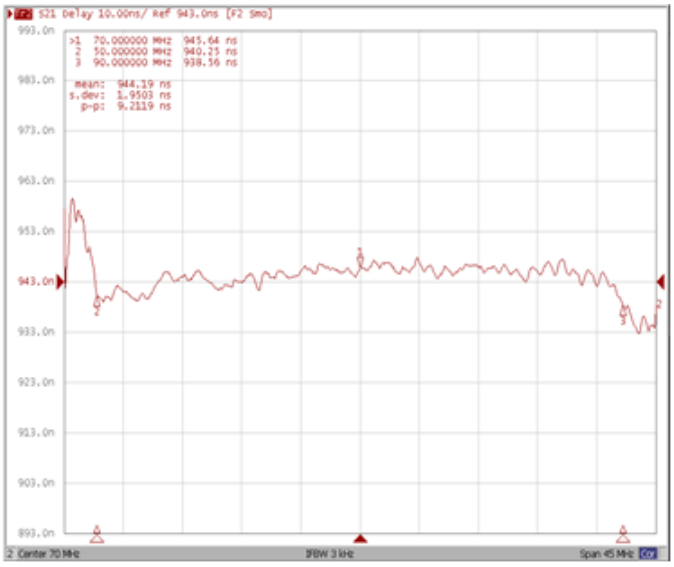
Frequency Response

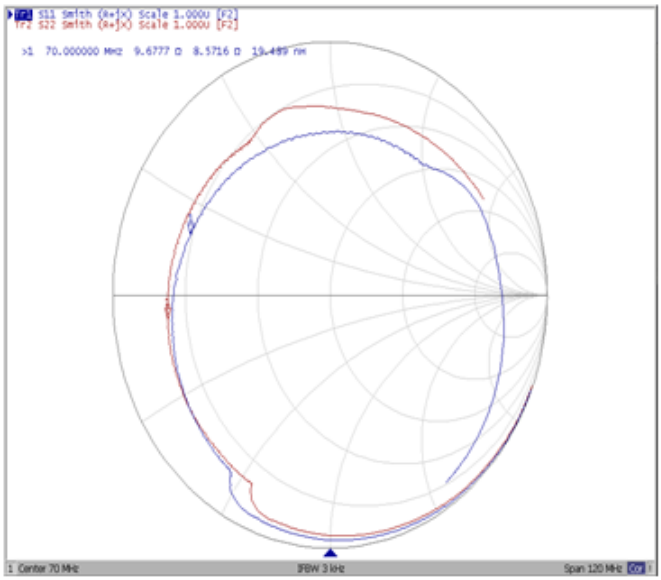
Ripple Variation Fo±20.0MHz



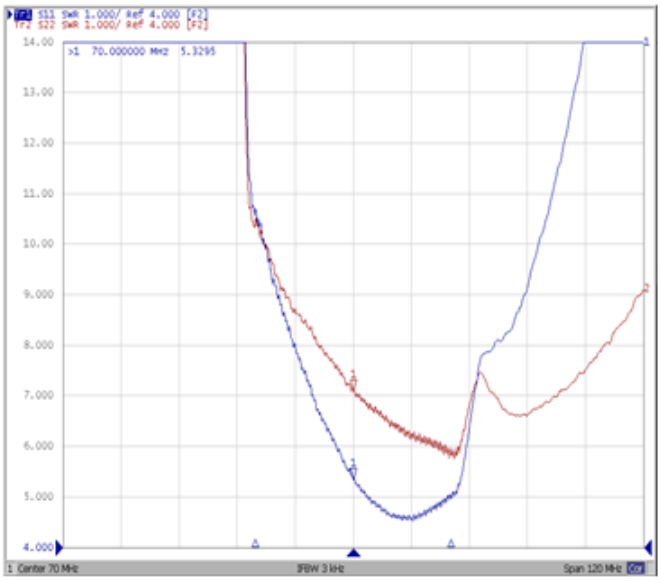
Group Delay Variation Fo±20.0MHz



Smith Chart



VSWR



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