- **70.00 MHz IF SAW Filter / 18.44MHz Bandwidth**
- **Revision 0: 24 Dec. 2007**

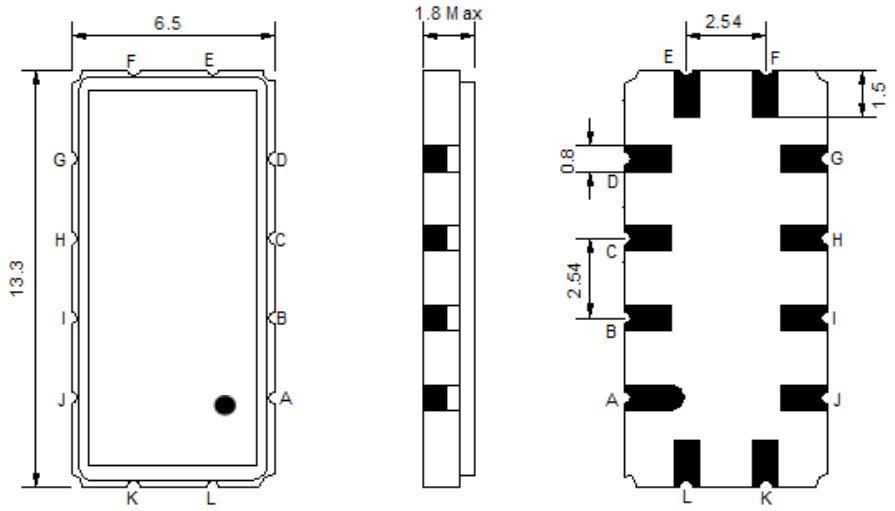
Electrical Characteristics

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	V			
Length x Width	mm²	-	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	-	12.8	15.0
Group Delay Variation (Fo±9.22MHz)	nsec	-	50	100
Absolute Delay at Fo	usec	-	1.16	-
Temperature Coefficient	ppm/°C	-	-86	-
Passband Ripple (Fo±9.22MHz)	dB	-	0.50	1.00
Bandwidth at -1dB	MHz	19.00	19.30	-
Bandwidth at -3dB	MHz	-	19.95	-
Bandwidth at -40dB	MHz	-	22.95	23.20
Relative Attenuation:				
Fo +10.8MHz	dB	15	18	-
Fo -10.8MHz	dB	15	16	-
Ultimate Rejection	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.

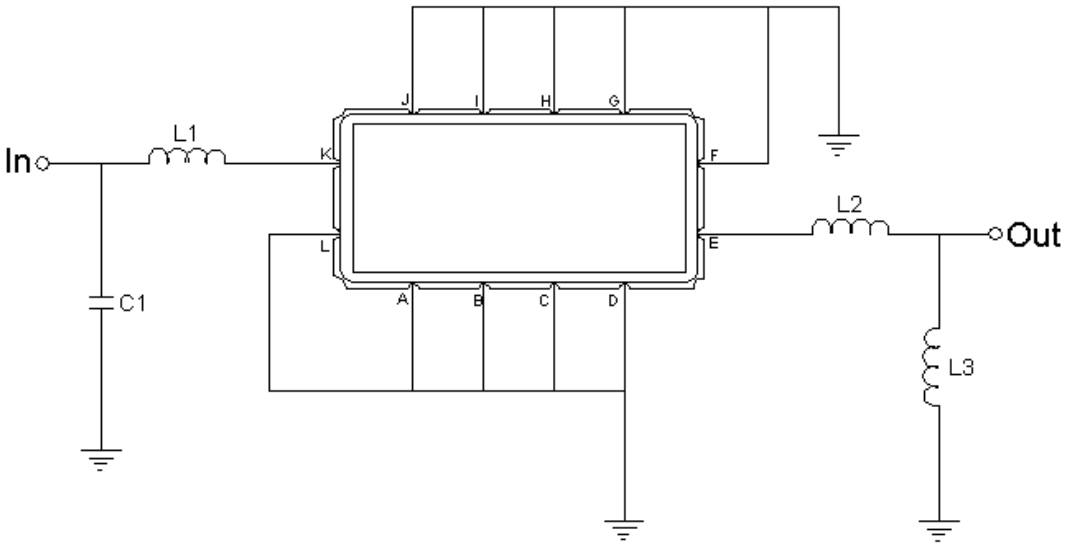
Package Dimensions



① **TRANSKO: Brand**
② **TL07019A: 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

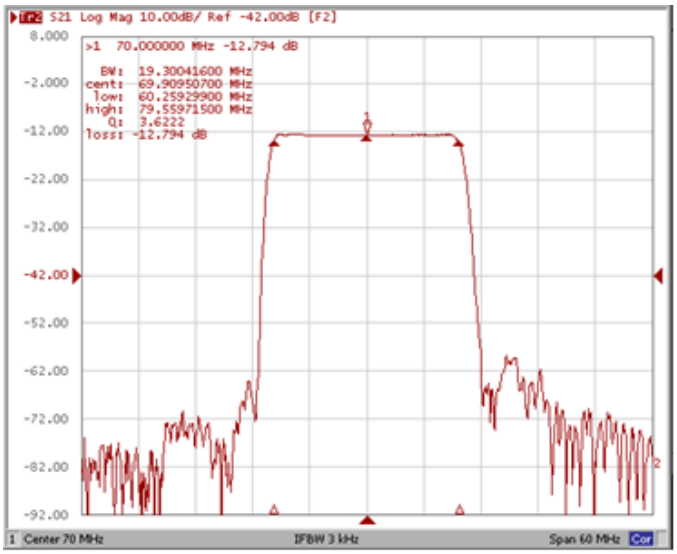


Test Fixture & Values	
Input	L1=100 nH, C1=68 pF
Output	L2=4.7 nH, L3=82 nH
Source/Load Impedance	50 Ω

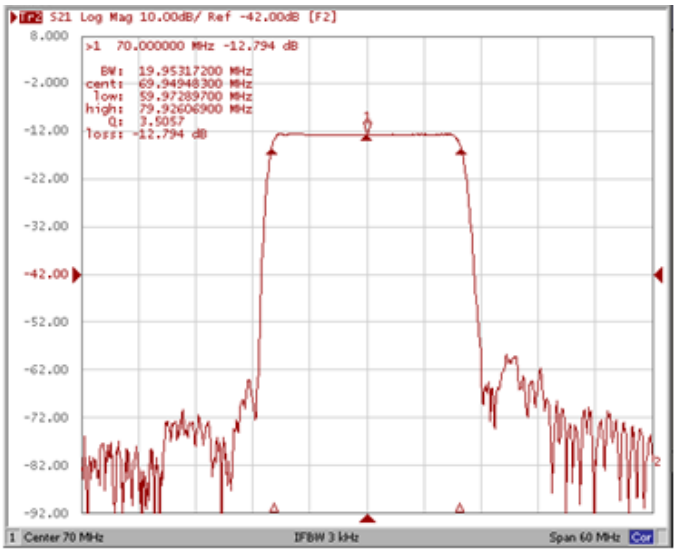
Frequency Characteristics

Frequency Response

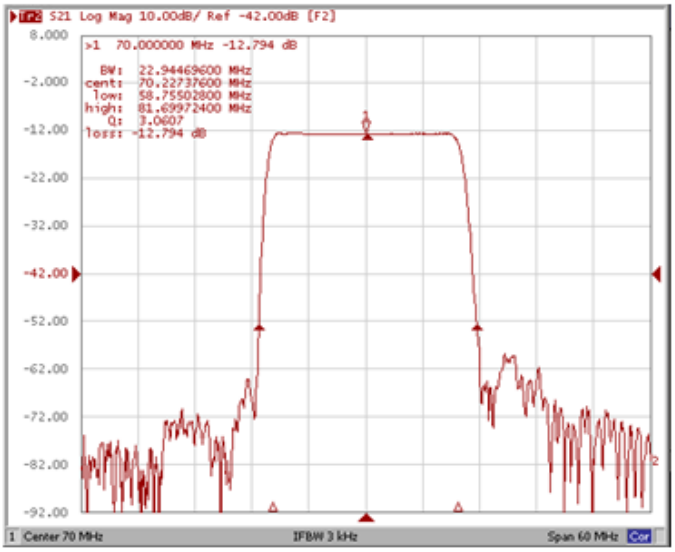
Bandwidth at –1.0 dB



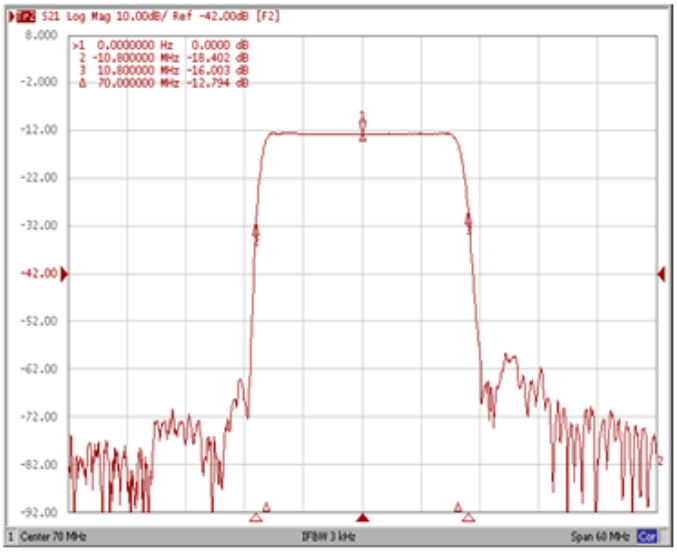
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB

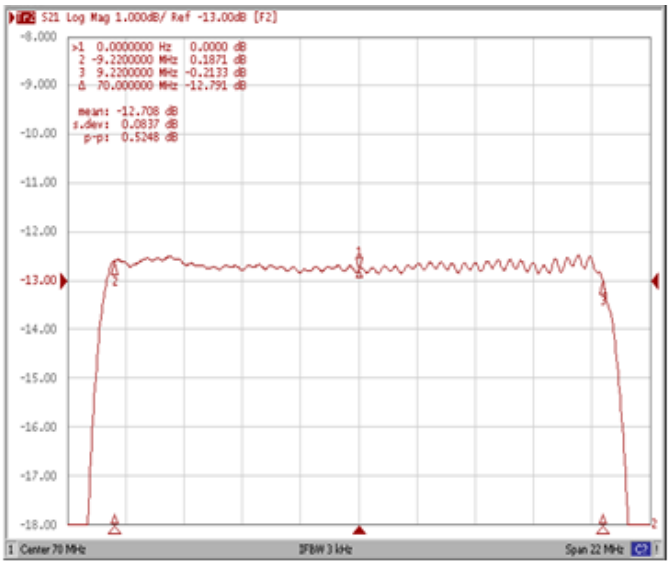


Relative Attenuation Fo +10.8MHz

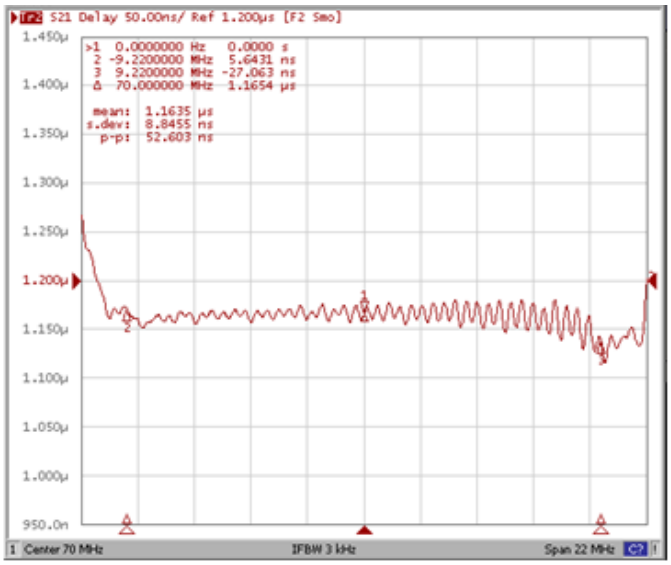


Frequency Response

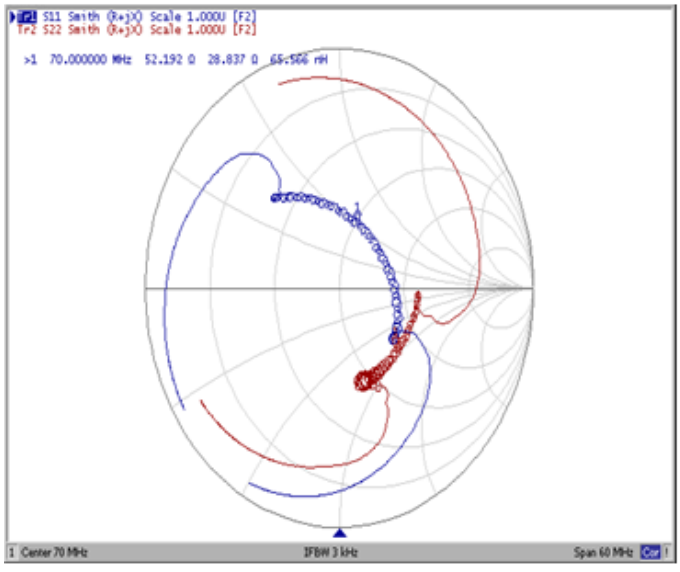
Ripple Variation Fo±9.22MHz



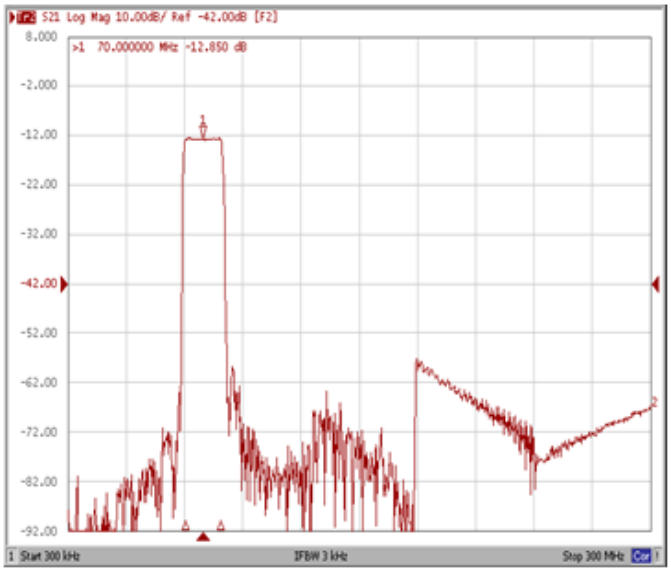
Group Delay Variation Fo±9.22MHz



Smith Chart



Wide Band



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