- **70.00 MHz IF SAW Filter / 5.50 MHz Bandwidth**
- **Revision 0: July 2013**

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operation Temperature Range	°C	-40	-	+85
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	E0			
Length x Width	mm²	-	9.1 x 7.1	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	-	70.00	-
Insertion Loss at Fo	dB	-	10.0	12.0
Group Delay Variation at Fo ± 2.0 MHz	nsec	-	50	100
Absolute Delay at Fo	usec	-	0.88	-
Amplitude Ripple Variation at Fo ± 2.0 MHz	dB_{p-p}	-	0.35	1.0
Bandwidth at -1dB	MHz	-	5.5	-
Bandwidth at -3dB	MHz	6.0	6.4	-
Temperature Coefficient	ppm/°C	-	-94	-
Attenuation (Reference level from minimum Insertion loss)				
Fc-10MHz ~ Fc-6MHz	dB	40	44	-
Fc-6MHz ~ Fc-5.1MHz	dB	25	42	-
Fc+5.1MHz ~ Fc+6MHz	dB	25	40	-
Fc+6MHz ~ Fc+10MHz	dB	40	44	-

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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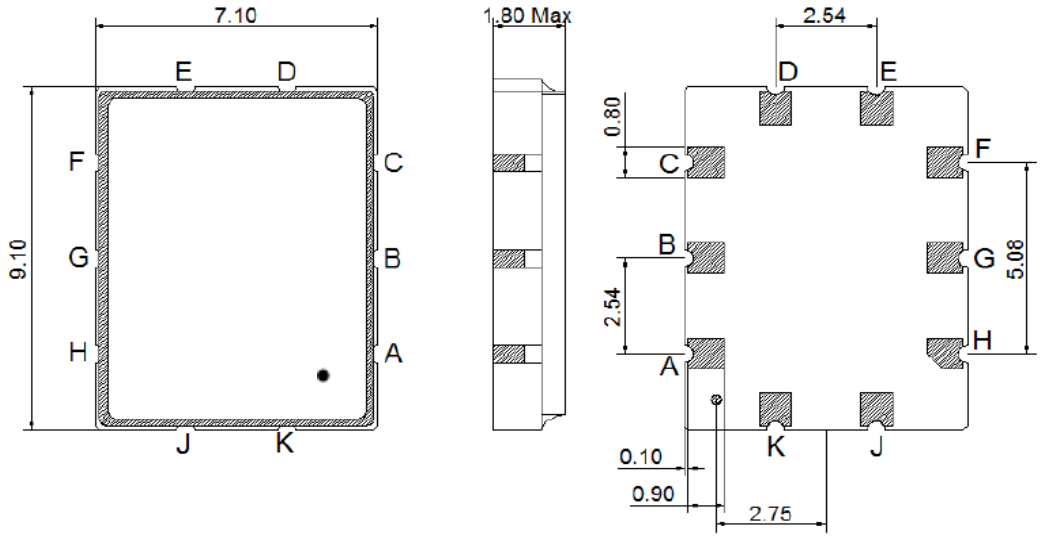
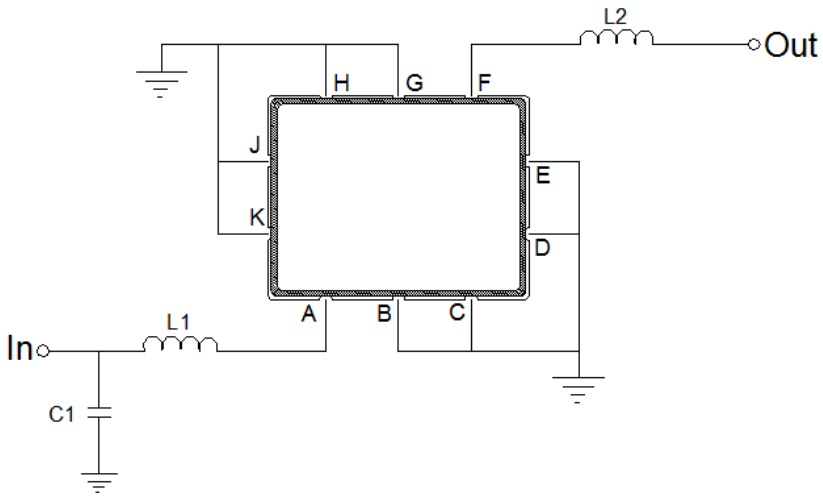
Package Dimensions



① TRANSKO: Brand
② TF-007008: Model Name
③ X : Date Code (Year)
④ Y : Date Code (Month)
⑤ Z : Date Code (Date)
• : Index Dot

Pin Description	
B, C, D, E, G, H, J, K	Ground
A	Input
F	Output

Testing Environment



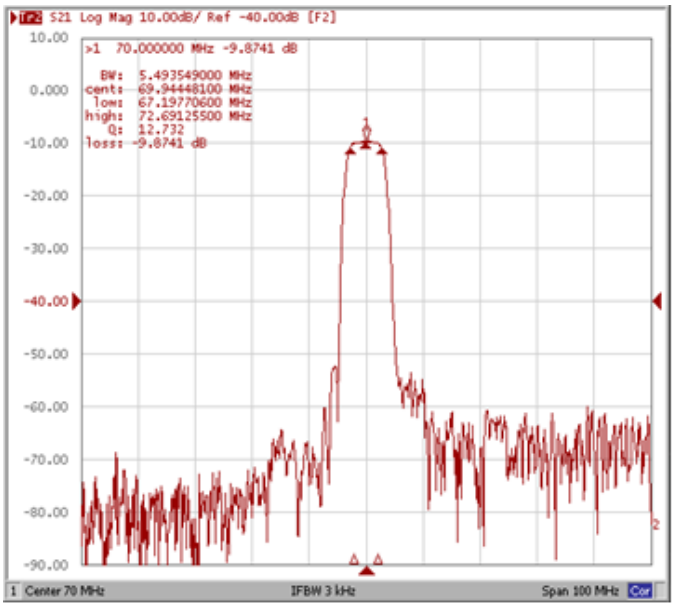
Test Fixture & Values	
Input	L1 = 68nH, C1= 9pF
Output	L2 = 68nH
Source/Load Impedance	50 Ω

Frequency Characteristics

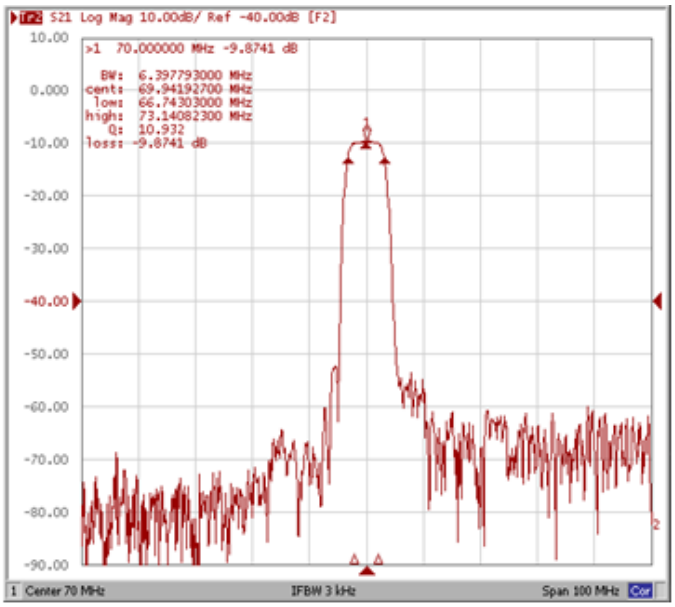
Frequency Response

Operating Temperature : +25 ℃

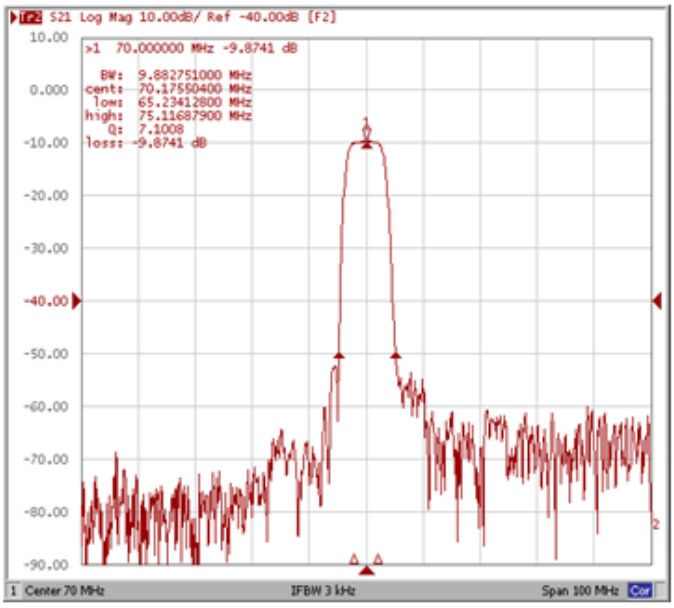
Bandwidth at –1.0 dB



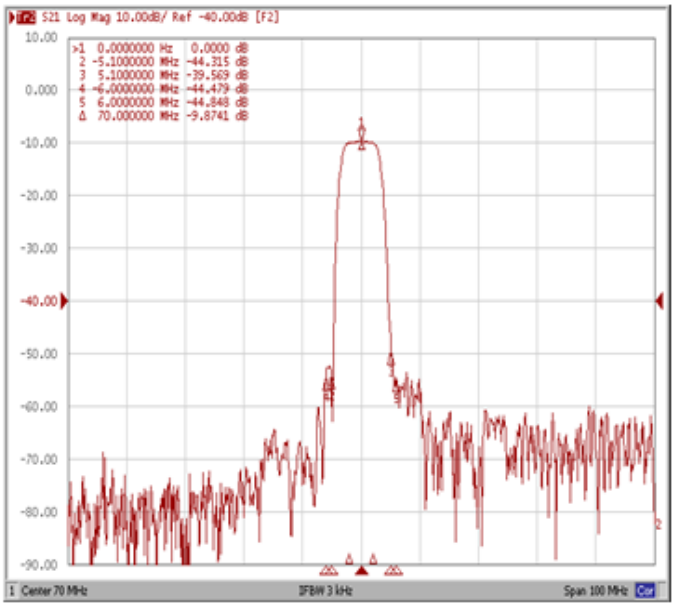
Bandwidth at –3.0 dB



Bandwidth at –40 dB



Attenuation



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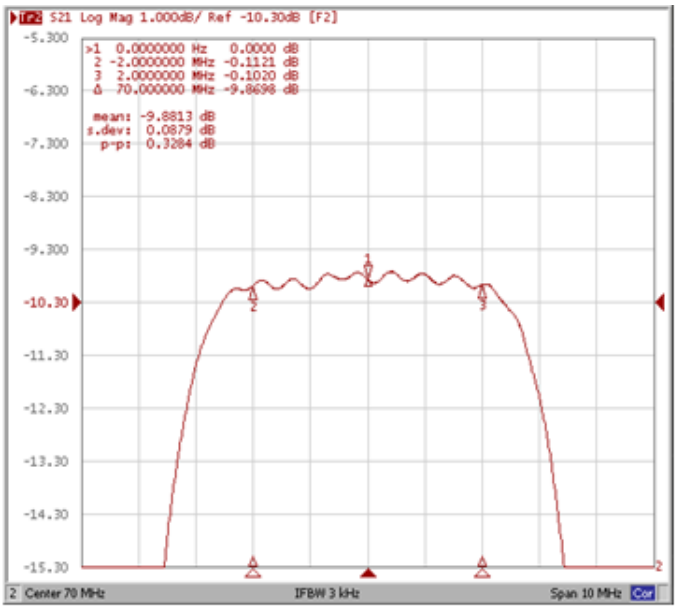
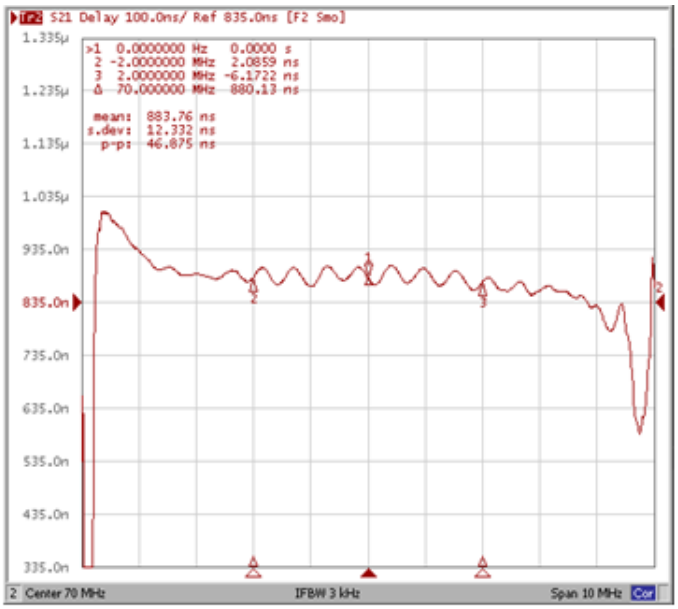
Frequency Response

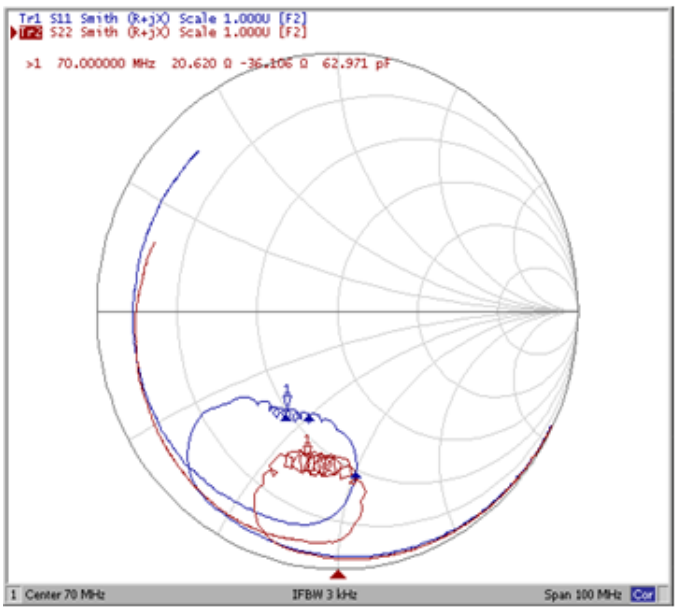
Ripple Variation Fo±2.0MHz



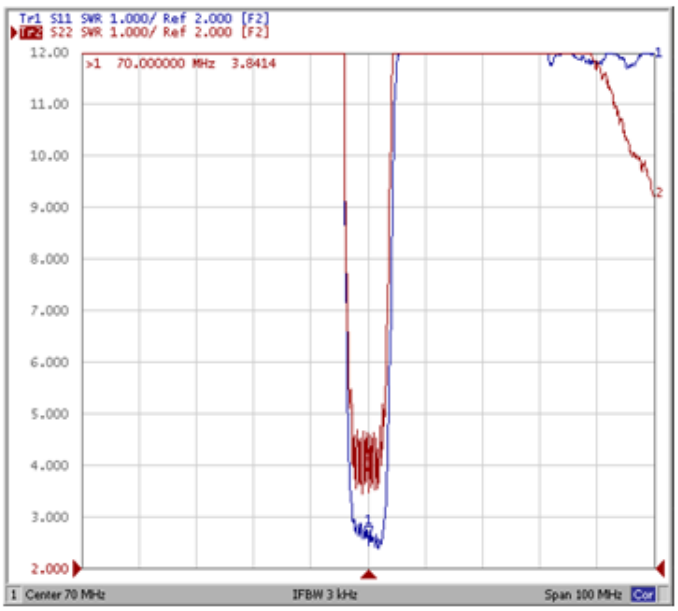
Group Delay Variation Fo±2.0MHz



Smith Chart



VSWR



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