- **120.00 MHz IF SAW Filter / 21.85 MHz Bandwidth**
- **Revision 0: 22 Aug. 2011**

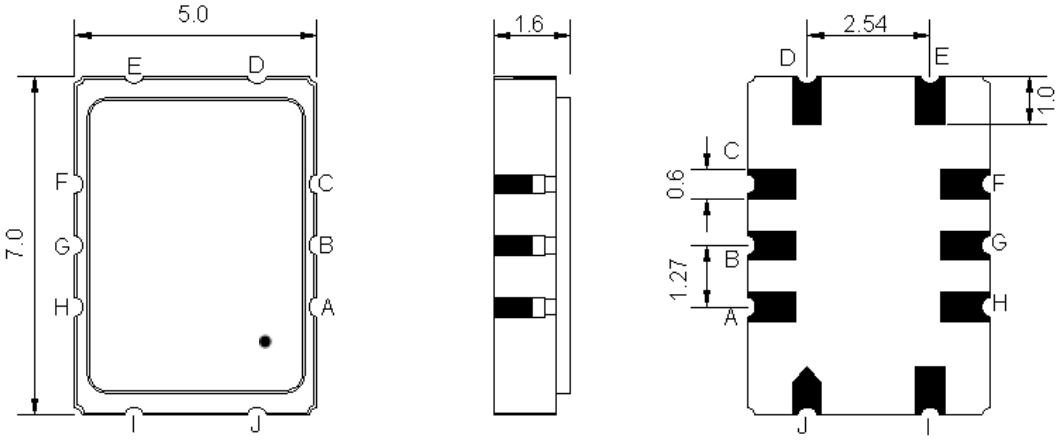
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operation 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	S			
Length x Width	mm²	-	7.0 x 5.0	-
Height	mm	-	-	1.6

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	-	120.00	-
Insertion Loss at Fo	dB	-	12.00	14.00
Group Delay Variation (Fo±9.32MHz)	nsec	-	22	60
Absolute Delay at Fo	usec	-	0.71	0.90
Passband Ripple Variation(Fo±9.32MHz)	dB	-	0.30	1.00
Bandwidth at -1dB	MHz	21.60	21.85	-
Bandwidth at -3dB	MHz	-	23.00	-
Bandwidth at -40dB	MHz	-	28.37	28.60
Out Band Rejection (Fo±5.0MHz)	dB	20	37	-
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.

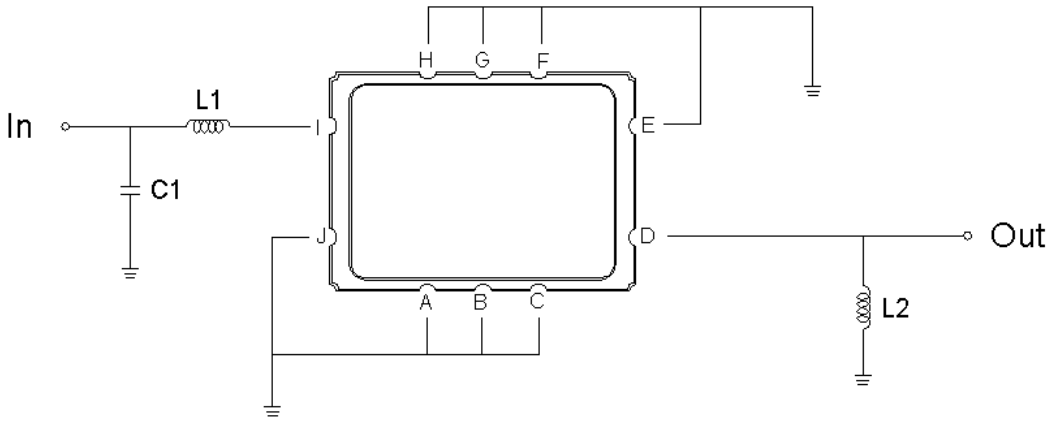
Package Dimensions



① **TRANSKO: Brand**
② **TL12022B: Model Name**
③ **X : Date Code (Year)**
④ **Y : Date Code (Month)**
⑤ **Z : Date Code (Date)**
• **: Index Dot**

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

Testing Environment



Test Fixture & Values	
Input	L1 = 56 nH, C1 = 18 pF
Output	L2 = 68 nH
Source/Load Impedance	50 Ω

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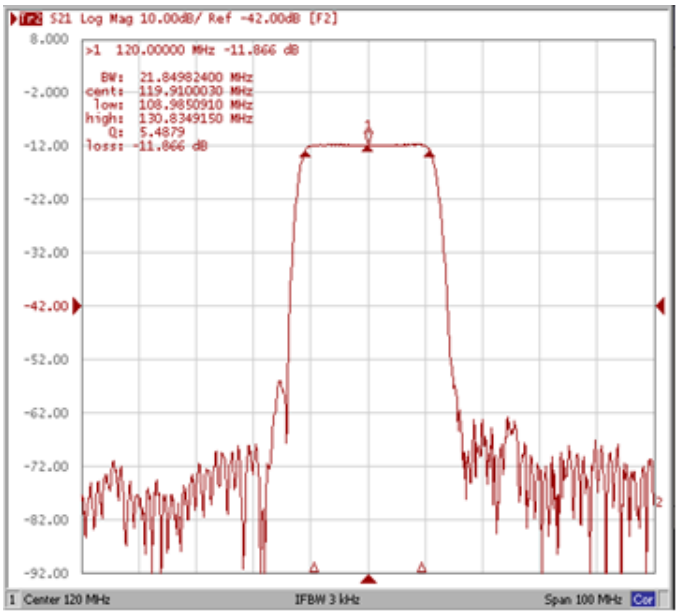
Tel: 714-528-8000 Fax: 714-528-8017 Website: www.transko.com E-mail: sales@transko.com

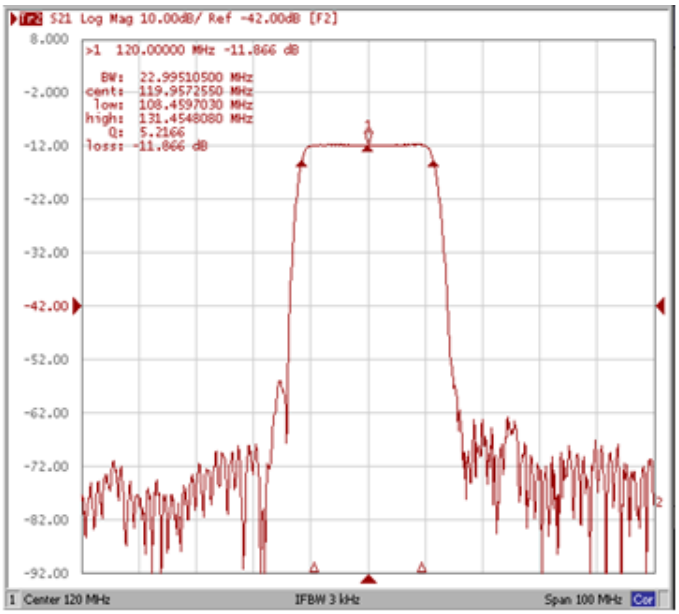
Frequency Characteristics

Frequency Response

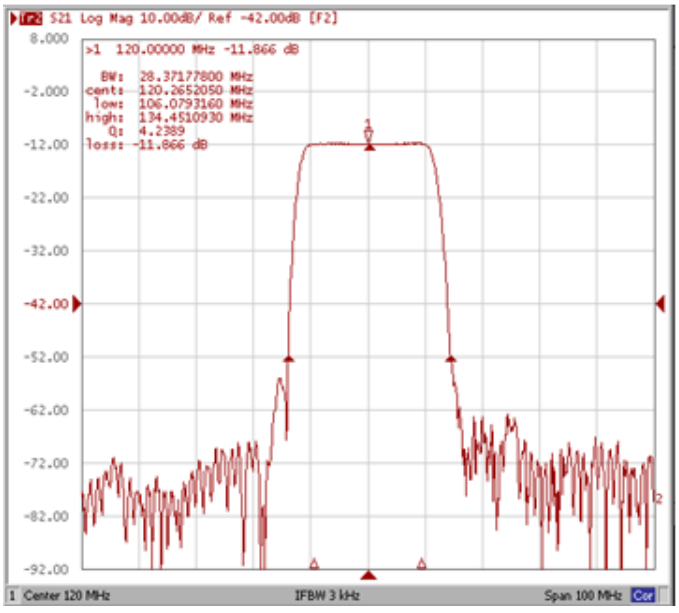
Bandwidth at –1.0 dB



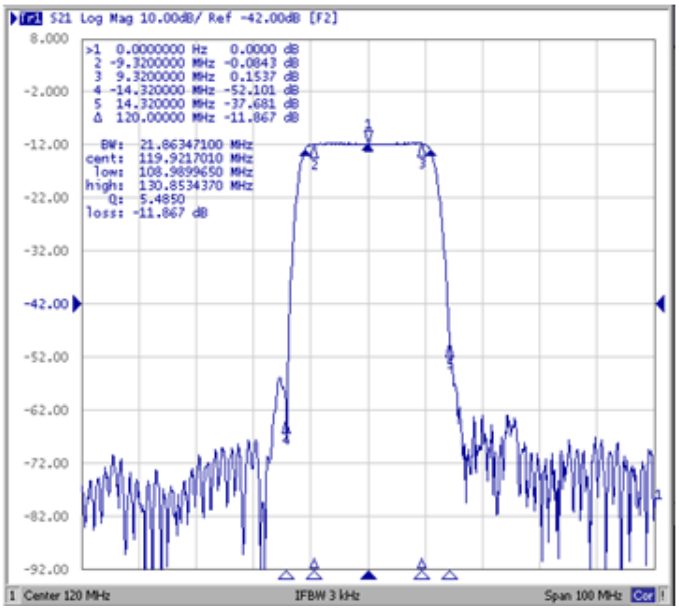
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB



Out Band Rejection Fo±5.0MHz



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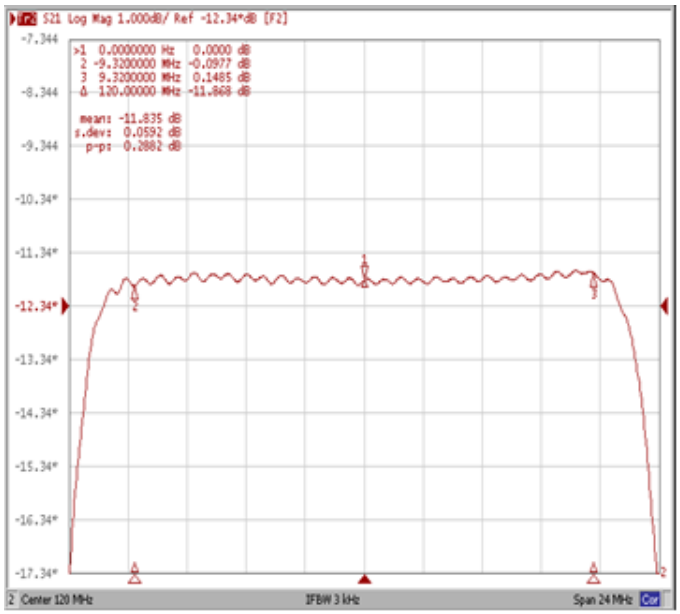
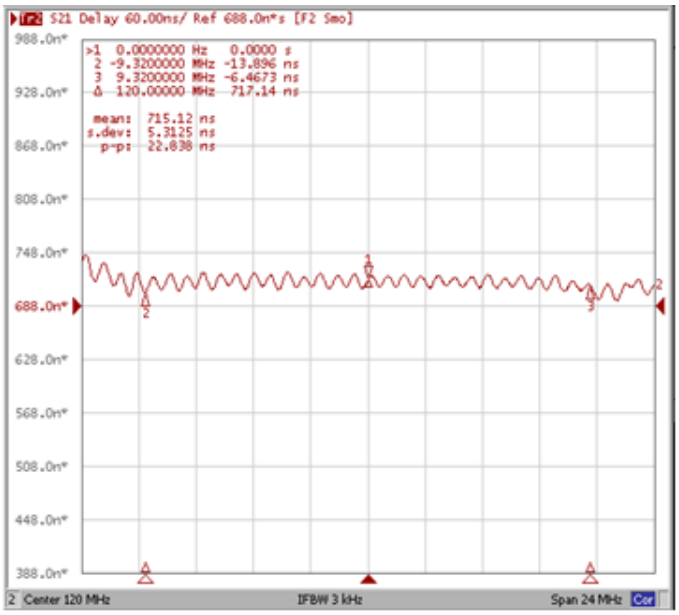
Frequency Response

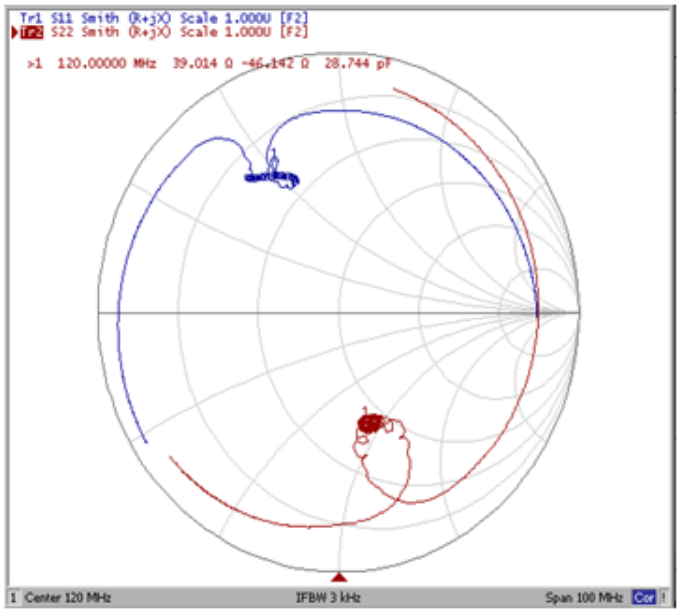
Ripple Variation Fo±9.32MHz



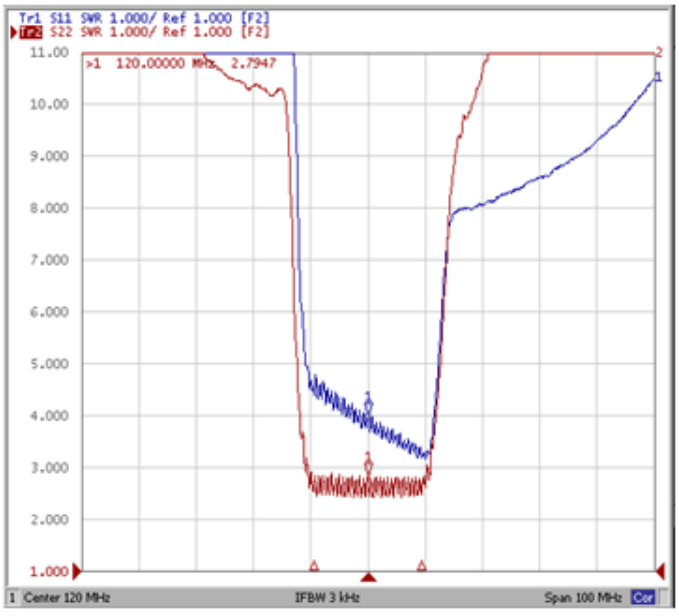
Group Delay Variation Fo±9.32MHz



Smith Chart



VSWR



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