

- 116.60 MHz IF SAW Filter / 3.40 MHz Bandwidth
- Revision 0: 28 Apr. 2009

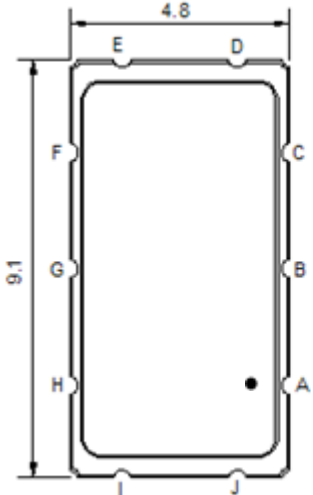
Electrical Characteristics


MAXIMUM RATING				
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-5	-	70
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	T			
Length x Width	mm ²	-	9.1 x 4.8	-
Height	mm	-	-	1.5

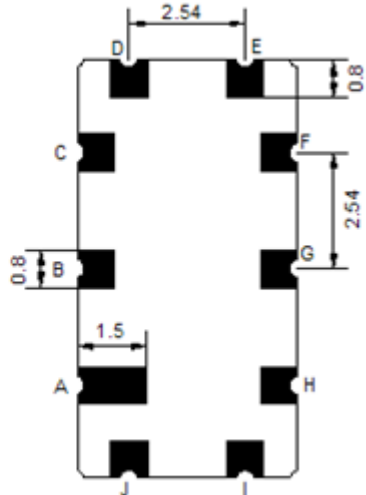
ELECTRICAL SPECIFICATION				
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	116.60	-
Insertion Loss at Fo	dB	-	12.50	15.00
Temperature Coefficient	ppm/°C	-	-20	-
Group Delay Variation at Fo±0.9MHz	nsec	-	10	40
Absolute Delay at Fo	usec	-	0.83	-
Passband Ripple at Fo±0.9MHz	dB	-	0.20	0.70
Bandwidth at -1dB	MHz	2.80	3.40	-
Bandwidth at -3dB	MHz	-	4.22	-
Bandwidth at -40dB	MHz	-	7.47	8.40
Ultimate Rejection	dB	45	50	-

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



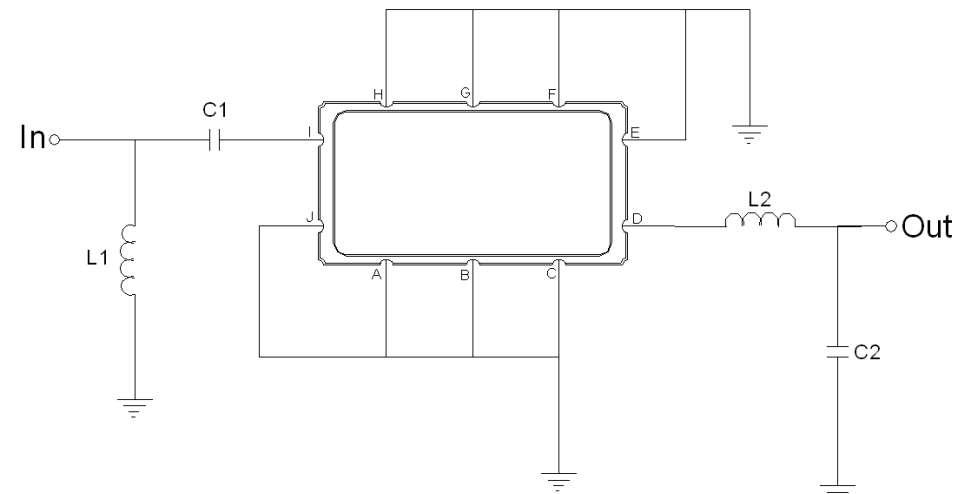




① **TRANSKO:** Brand
 ② **TL11602A:** Model Name
 ③ **X :** Date Code (Year)
 ④ **Y :** Date Code (Month)
 ⑤ **Z :** Date Code (Date)
 • : Index Dot

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

Testing Environment

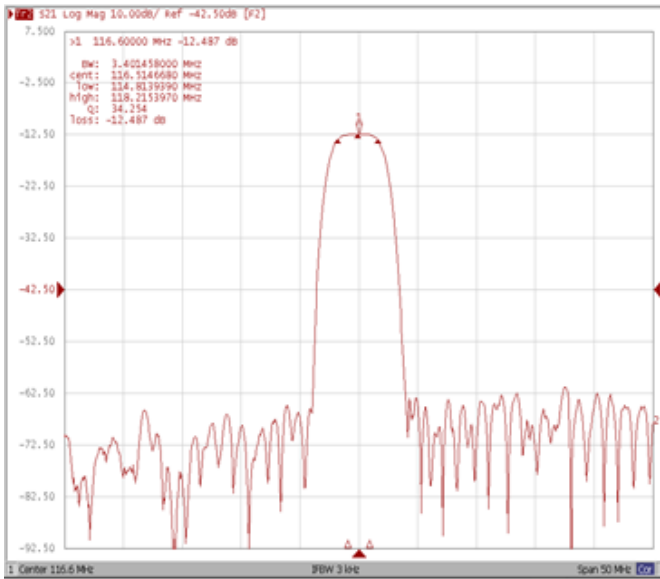


Test Fixture & Values	
Input	L1 = 22 nH, C1 = 300 pF
Output	L2 = 33 nH, C2 = 62 pF
Source/Load Impedance	50 Ω

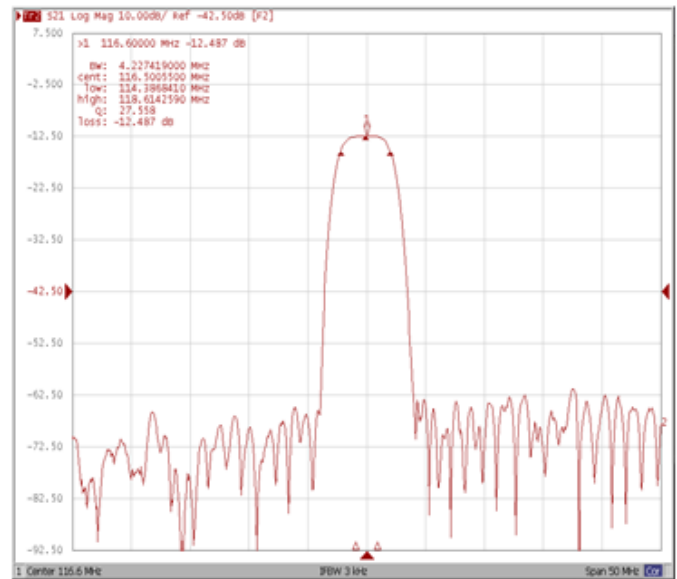
Frequency Characteristics

Frequency Response

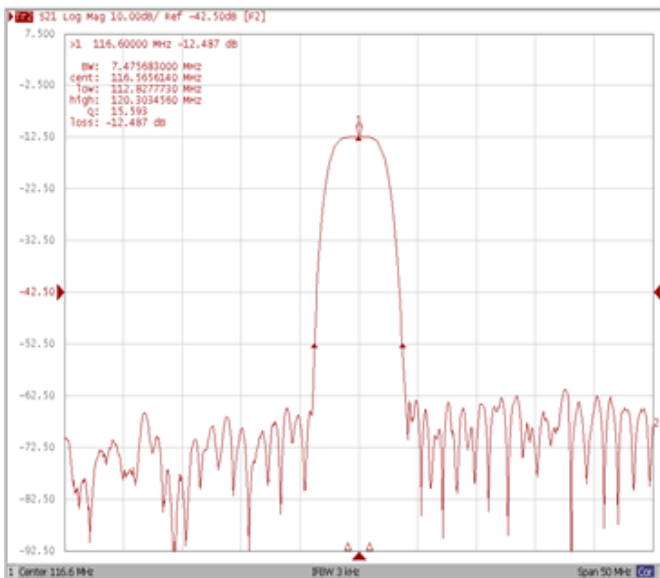
Bandwidth at -1.0 dB



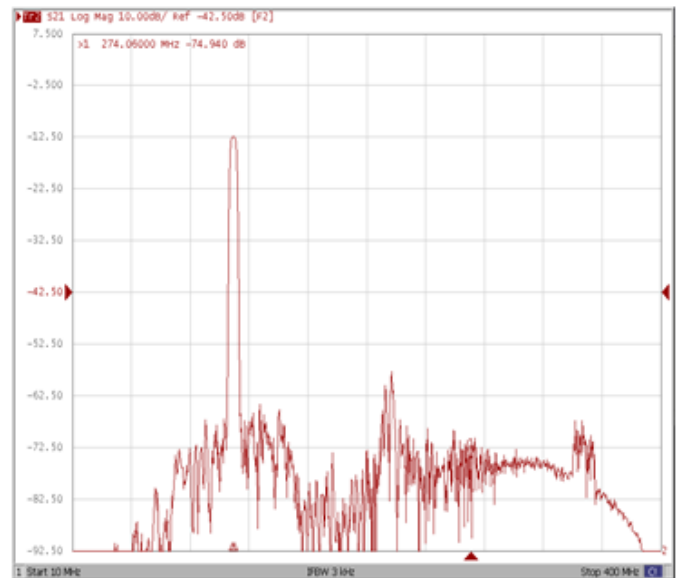
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

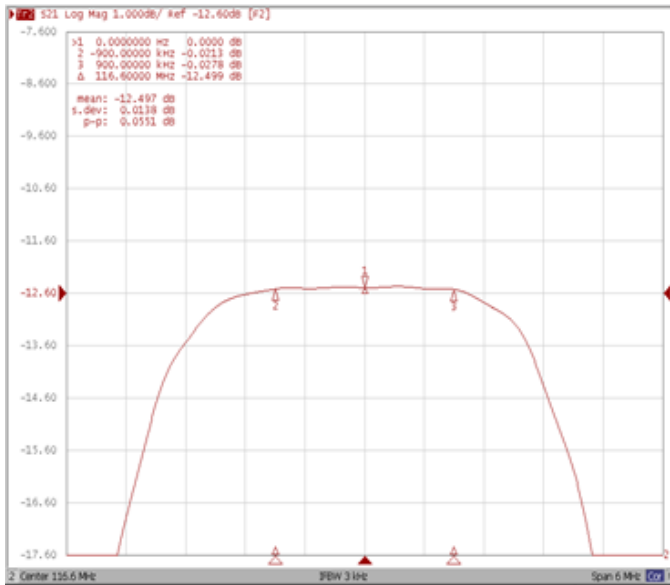


WIDE

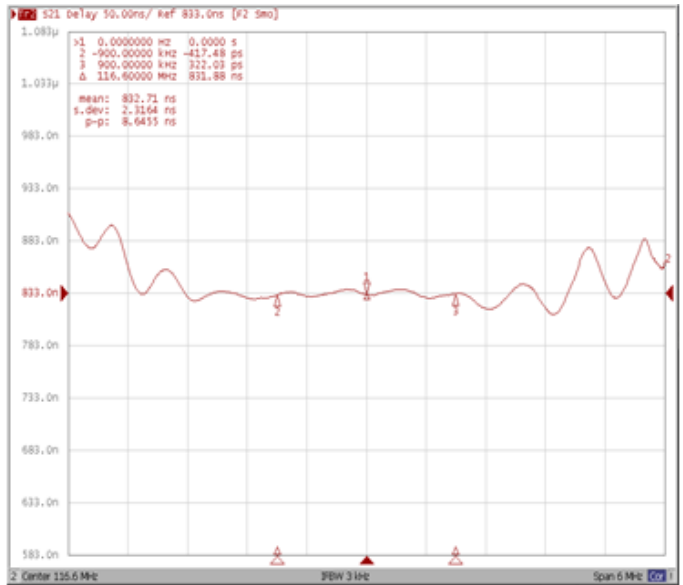


Frequency Response

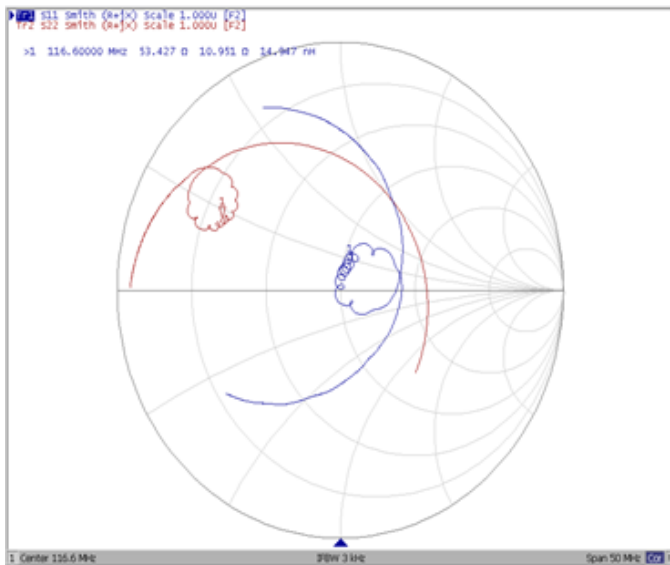
Ripple Variation Fo±0.9MHz



Group Delay Variation Fo±0.9MHz



Smith Chart



SWR

