- **108.40 MHz IF SAW Filter / 3.20 MHz Bandwidth**
- **Revision 0: 28 Apr. 2009**

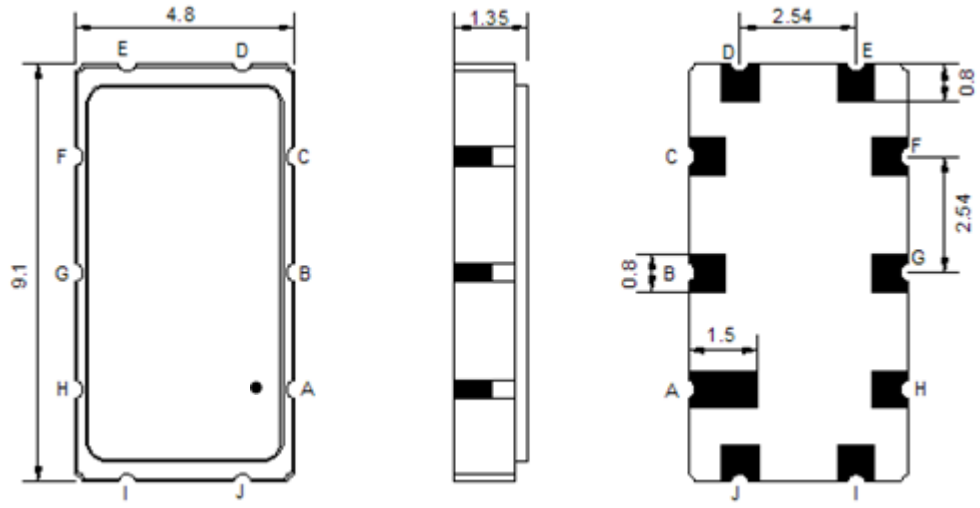
Electrical Characteristics

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	mm²	-	9.1 x 4.8	-
Height	mm	-	-	1.5

ELECTRICAL SPECIFICATION				
Parameters Description	**Unit**	**Minimum**	**Typical**	**Maximum**
Center Frequency (Fo)	MHz	-	108.40	-
Insertion Loss at Fo	dB	-	11.60	14.00
Temperature Coefficient	ppm/℃	-	-20	-
Group Delay Variation at Fo±0.9MHz	nsec	-	10	40
Absolute Delay at Fo	usec	-	0.89	-
Passband Ripple at Fo±0.9MHz	dB	-	0.20	0.70
Bandwidth at -1dB	MHz	2.00	3.20	-
Bandwidth at -3dB	MHz	-	4.05	-
Bandwidth at -40dB	MHz	-	7.10	8.00
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.

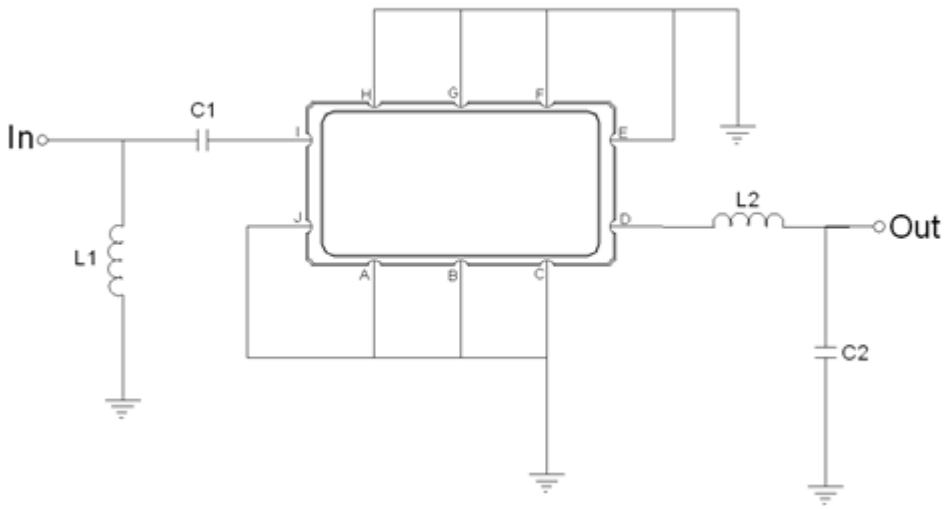
Package Dimensions



① **TRANSKO: Brand**
② **TL10802A: 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

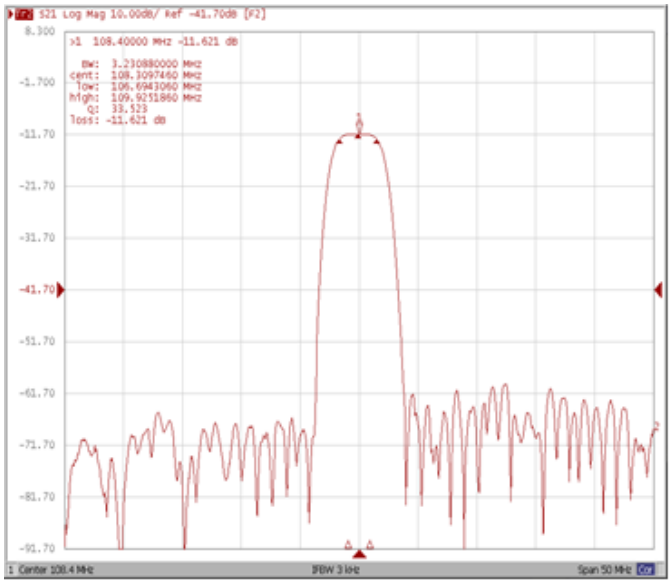


Test Fixture & Values	
Input	L1 = 27 nH , C1 = 200 pF
Output	L2 = 39 nH, C2 = 68 pF
Source/Load Impedance	50 Ω

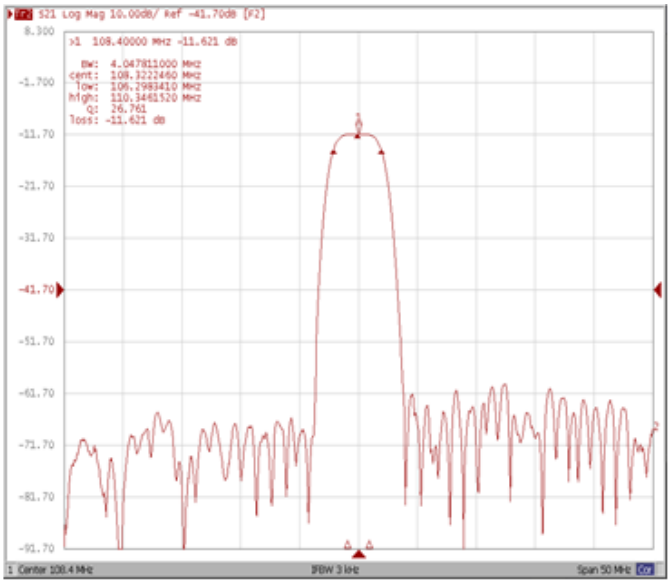
Frequency Characteristics

Frequency Response

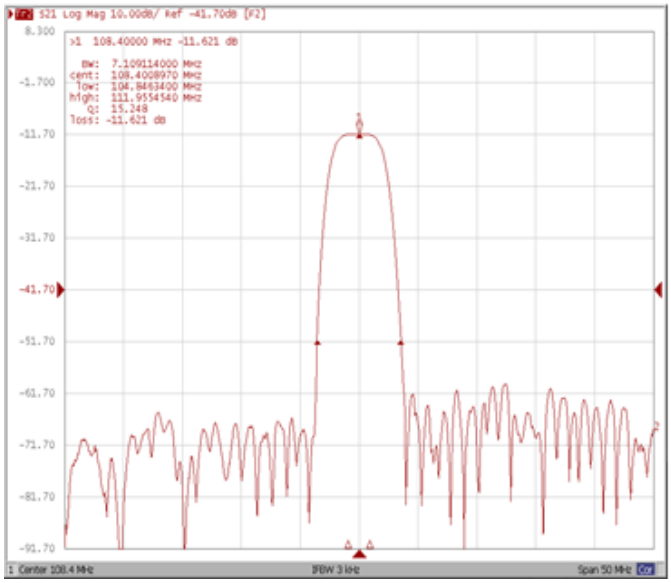
Bandwidth at –1.0 dB



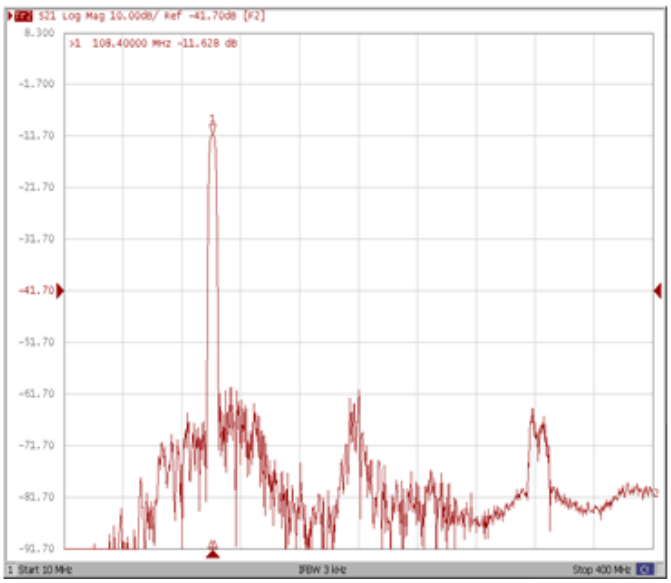
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB



WIDE



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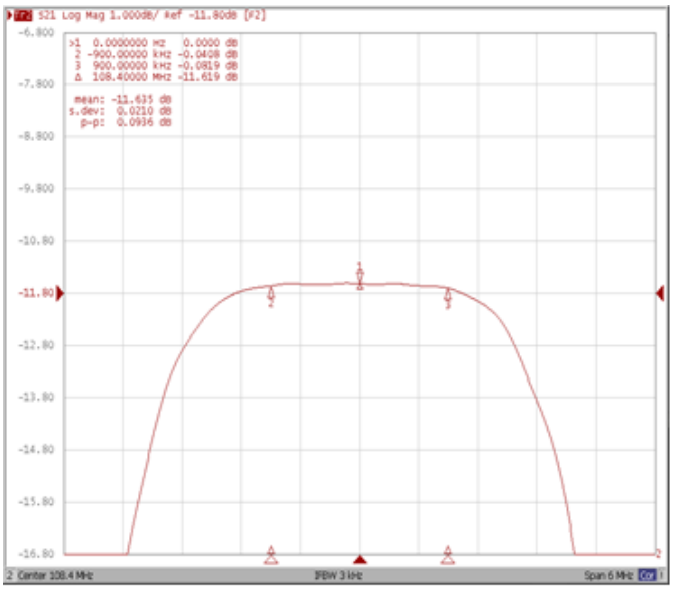
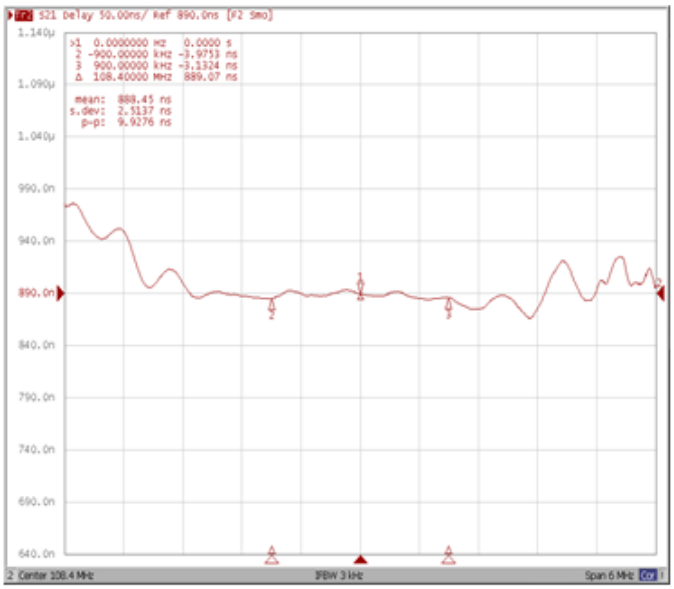
Frequency Response

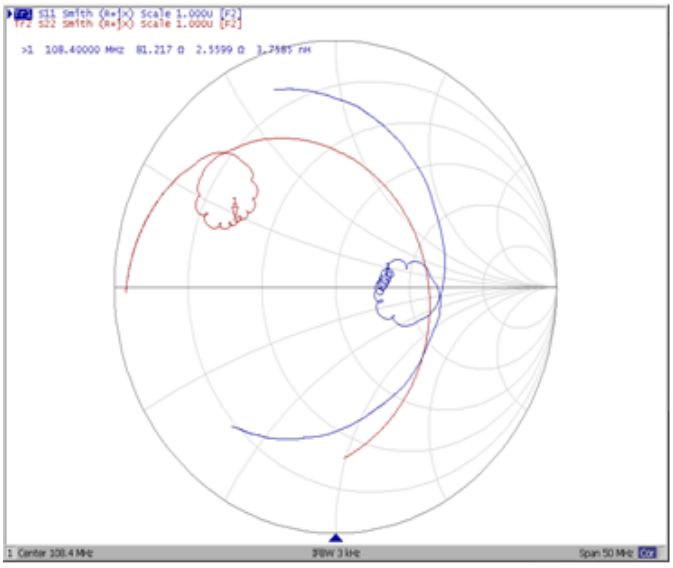
Ripple Variation Fo±0.9MHz



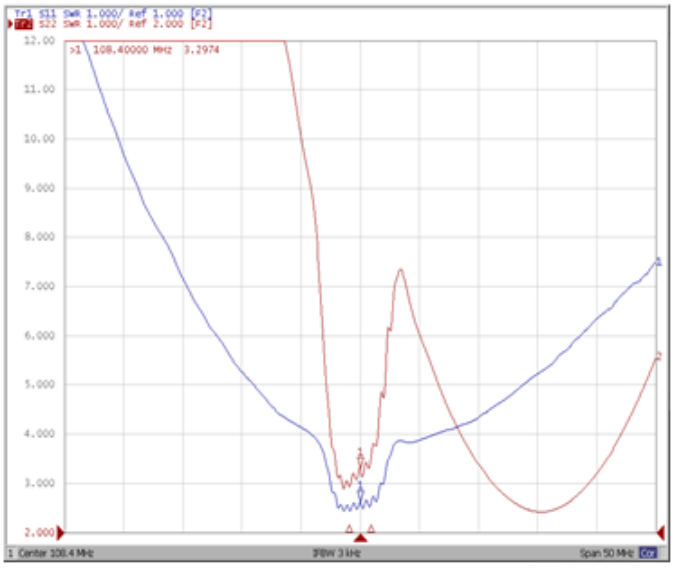
Group Delay Variation Fo±0.9MHz



Smith Chart



SWR



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