

- 90.432 MHz IF SAW Filter / 2.03 MHz Bandwidth
- Revision 0: 15. Apr. 2009

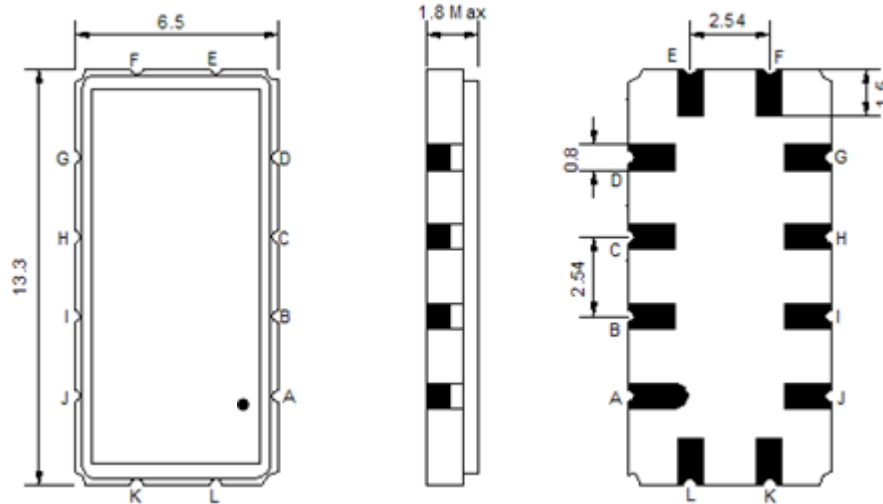
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-20		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	V			
Length x Width	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	90.432	-
Insertion Loss at Fo	dB	-	20.2	22.0
Passband Ripple (fo ±0.768MHz)	dB _{p-p}	-	0.3	0.8
Group Delay Variation (fo ±0.768MHz)	nsec	-	45	100
Absolute Delay at Fo	µsec	-	1.78	-
Bandwidth at -1.0 dB	MHz	1.90	2.03	-
Bandwidth at -30.0 dB	MHz	-	3.43	3.50
Relative Attenuation				
Fo +1.75MHz	dB	-	34	-
Fo -1.75MHz	dB	-	34	-
Ultimate Rejection Level	dB	45	52	-
Temperature Coefficient	ppm/°C	-	-0.03	-

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.

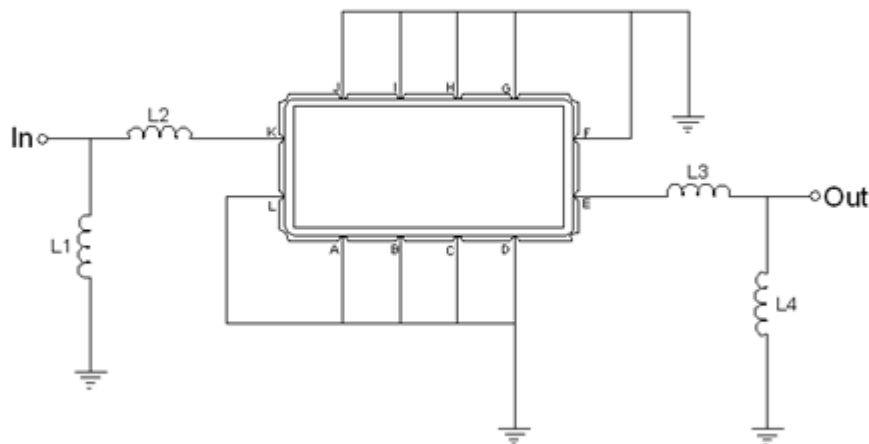
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA09001A:** 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

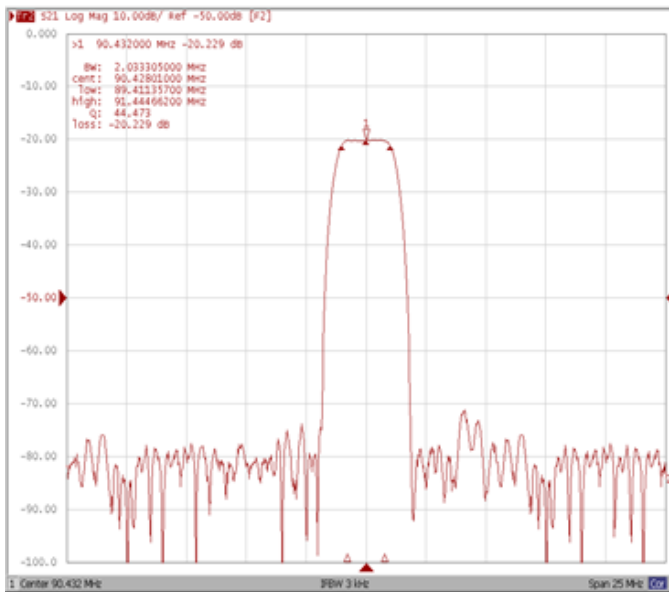


Test Fixture & Values	
Input	L1=150 nH, L2=180 nH
Output	L3=150 nH, L4=82 nH
Source/Load Impedance	50 Ω

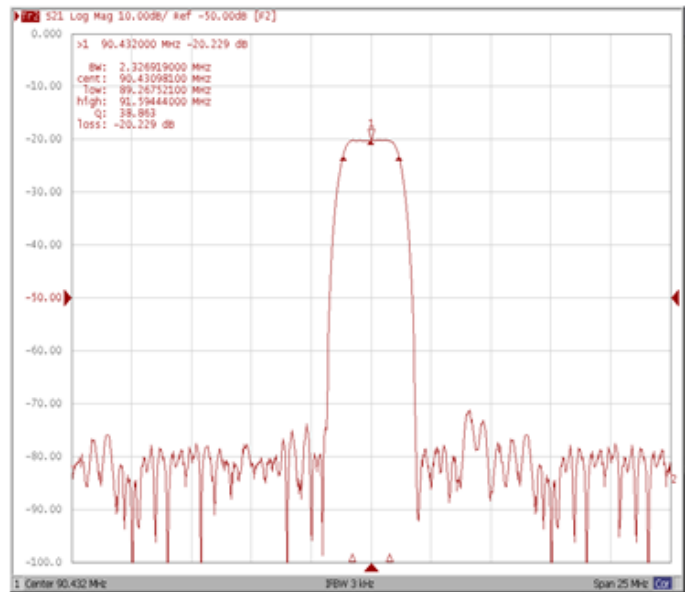
Frequency Characteristics

Frequency Response

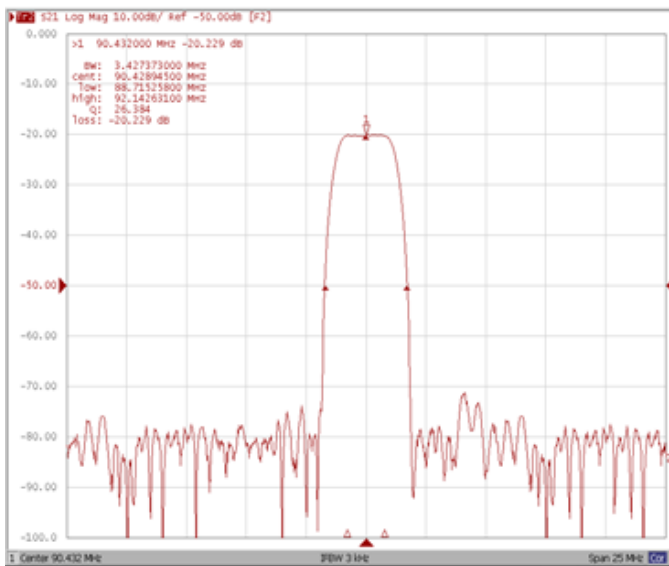
Bandwidth at -1.0 dB



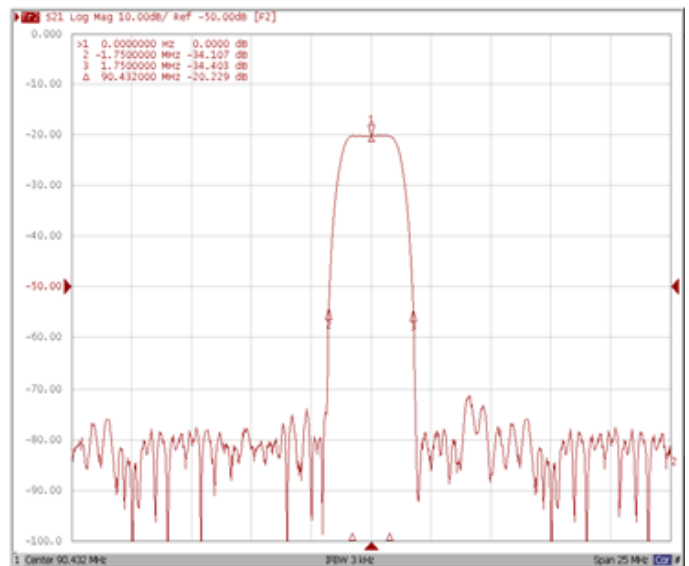
Bandwidth at -3.0 dB



Bandwidth at -30.0 dB

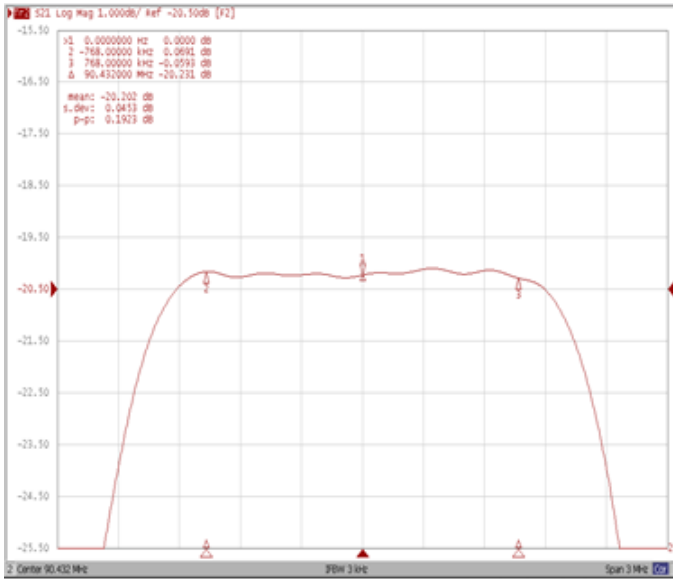


Relative Attenuation Fo ± 1.75 MHz

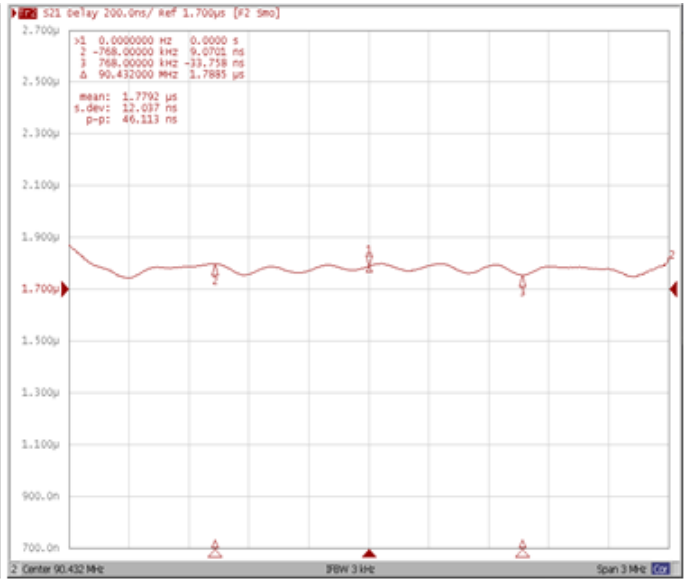


Frequency Response

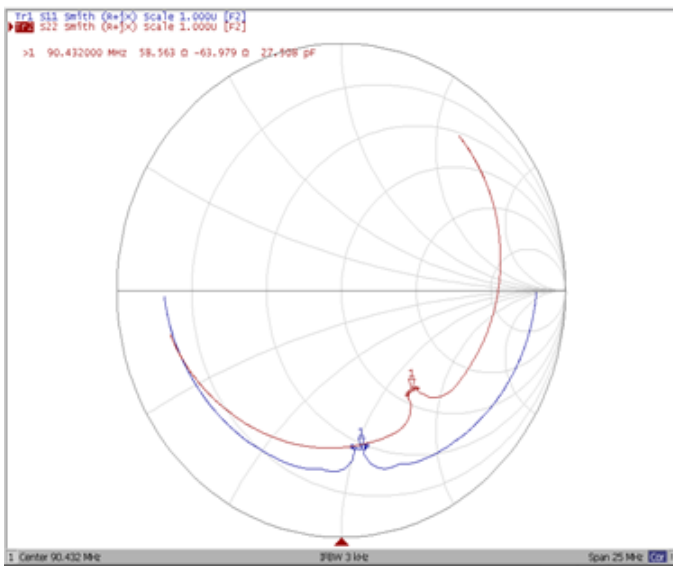
Ripple Variation Fo±0.768MHz



Group Delay Variation Fo±0.768MHz



Smith Chart



VSWR

