

- 109.70 MHz IF SAW Filter / 6.10 MHz Bandwidth
- Revision 0: 28 Apr. 2009

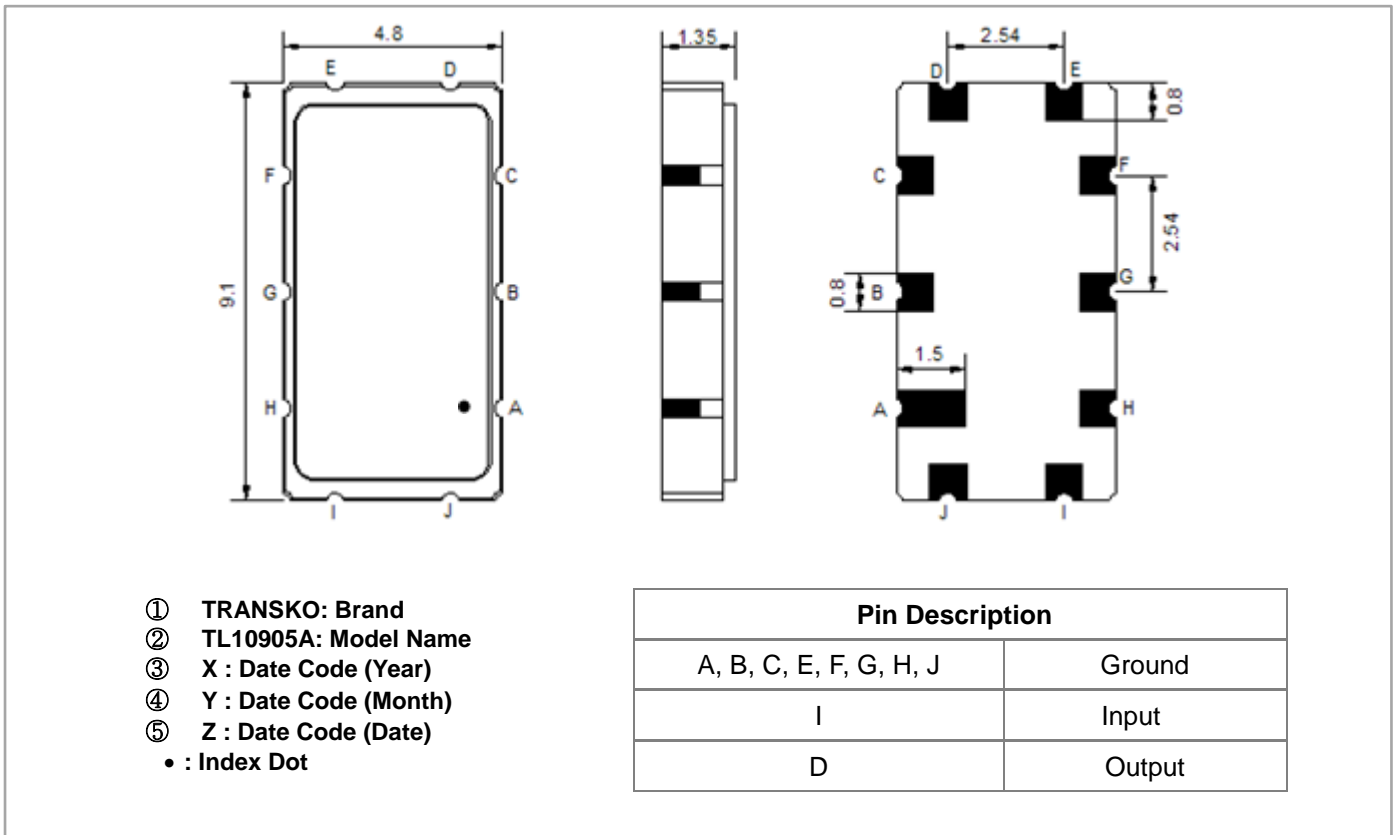
Electrical Characteristics

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

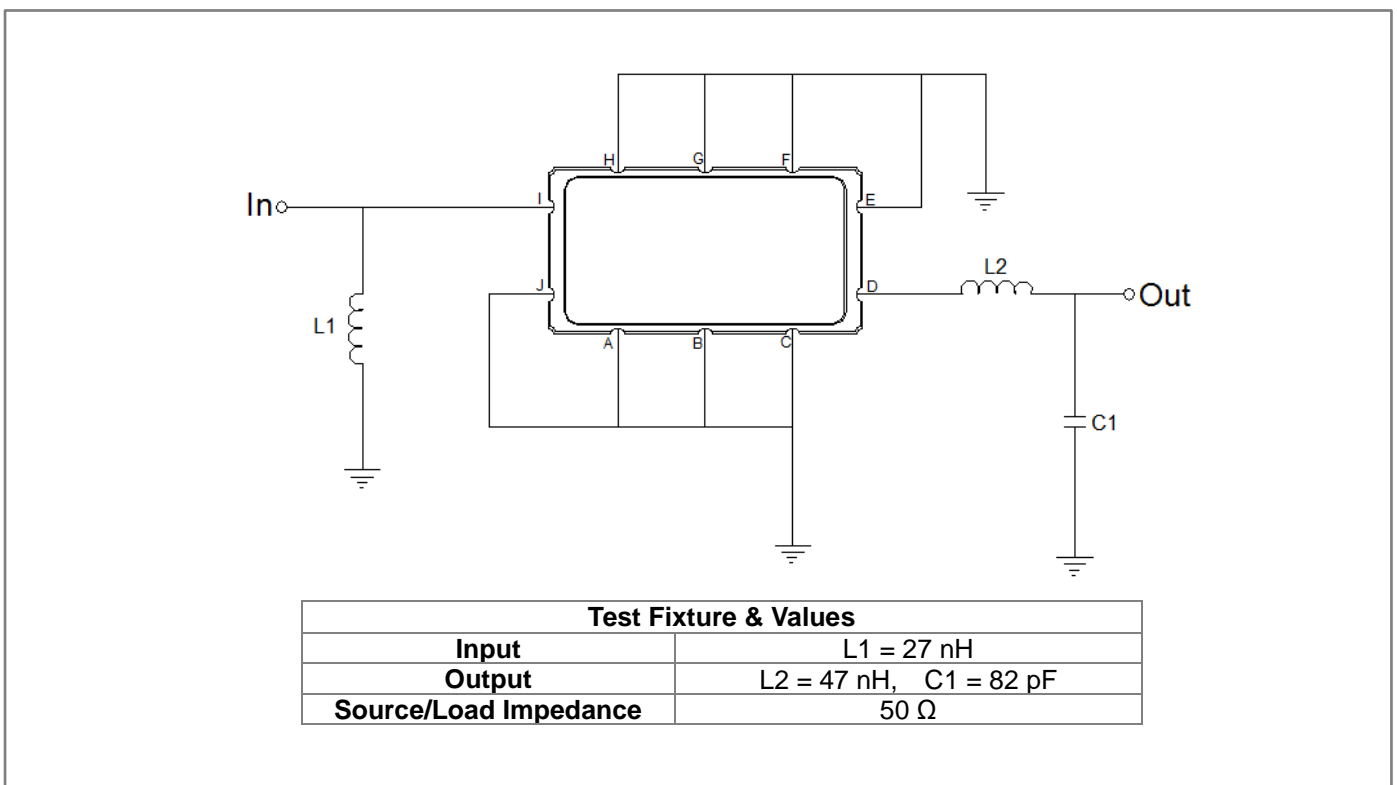
ELECTRICAL SPECIFICATION				
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	109.70	-
Insertion Loss at Fo	dB	-	13.50	15.00
Temperature Coefficient	ppm/°C	-	-20	-
Group Delay Variation at Fo±2.2MHz	nsec	-	16	60
Absolute Delay at Fo	usec	-	0.89	-
Passband Ripple at Fo±2.2MHz	dB	-	0.35	0.70
Bandwidth at -1dB	MHz	5.00	6.10	-
Bandwidth at -3dB	MHz	-	6.85	-
Bandwidth at -40dB	MHz	-	9.90	10.50
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



Testing Environment

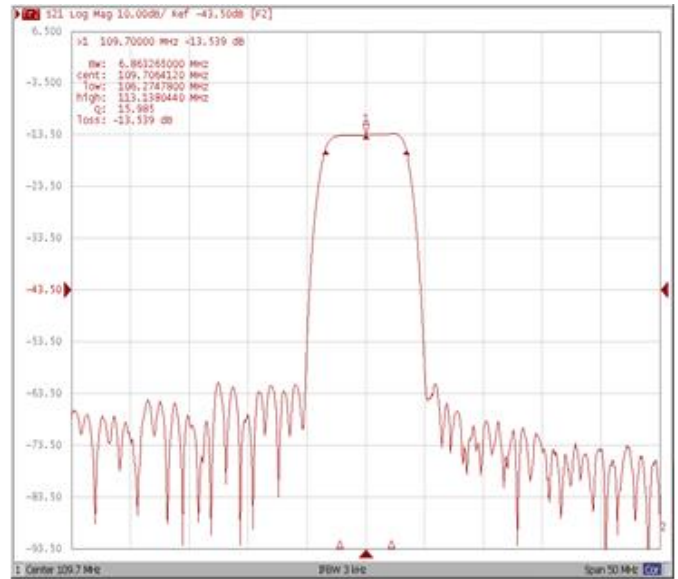


Frequency Characteristics

Frequency Response

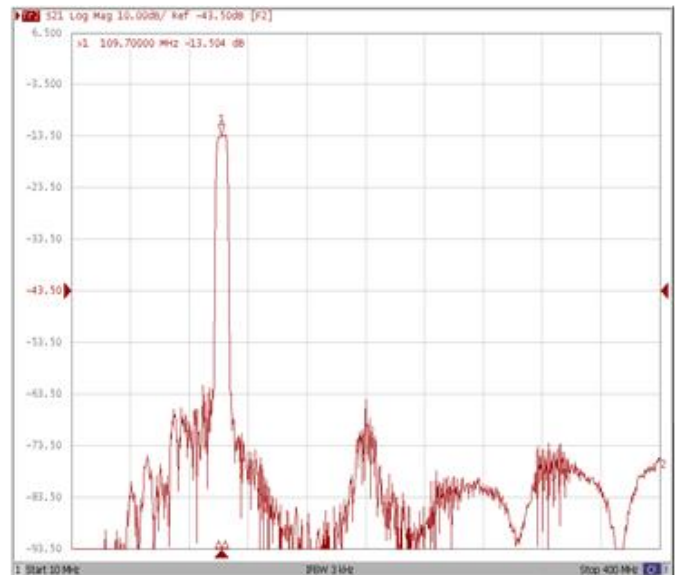
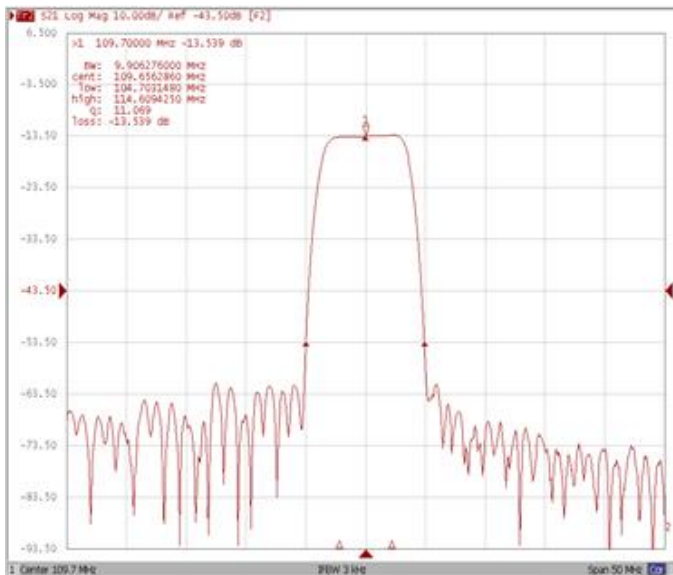
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

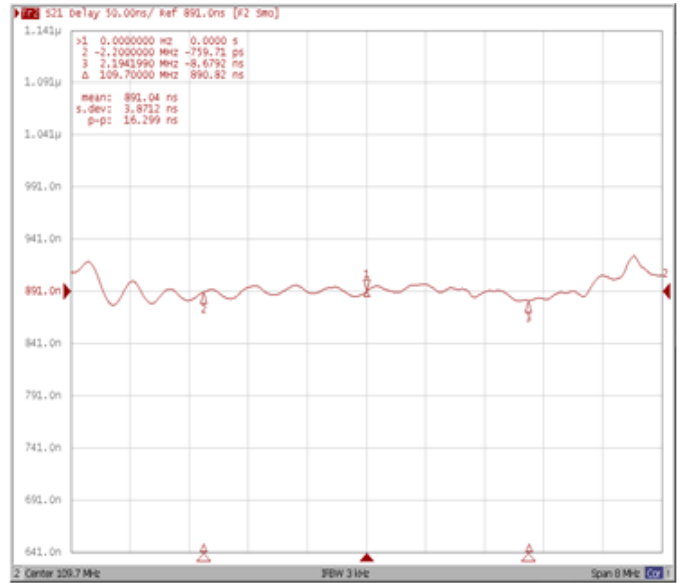
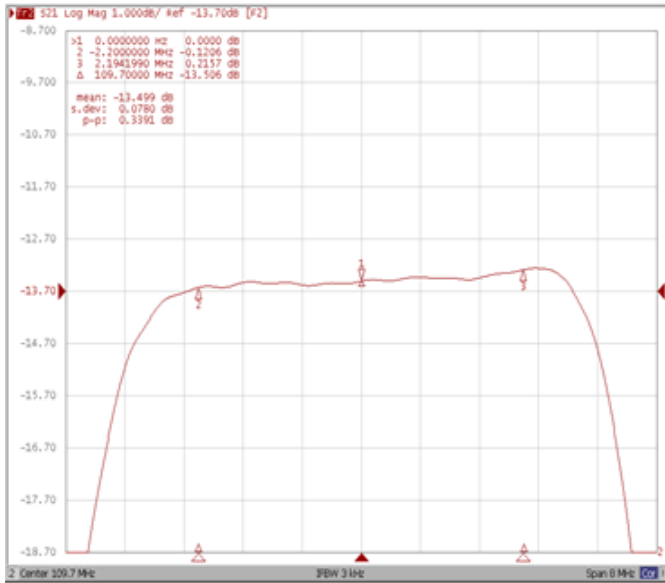
WIDE



Frequency Response

Ripple Variation Fo±2.2MHz

Group Delay Variation Fo±2.2MHz



Smith Chart

SWR

