

- 59.7 MHz IF SAW Filter / 5.2 MHz Bandwidth
- Revision 0: 10 Mar. 2009

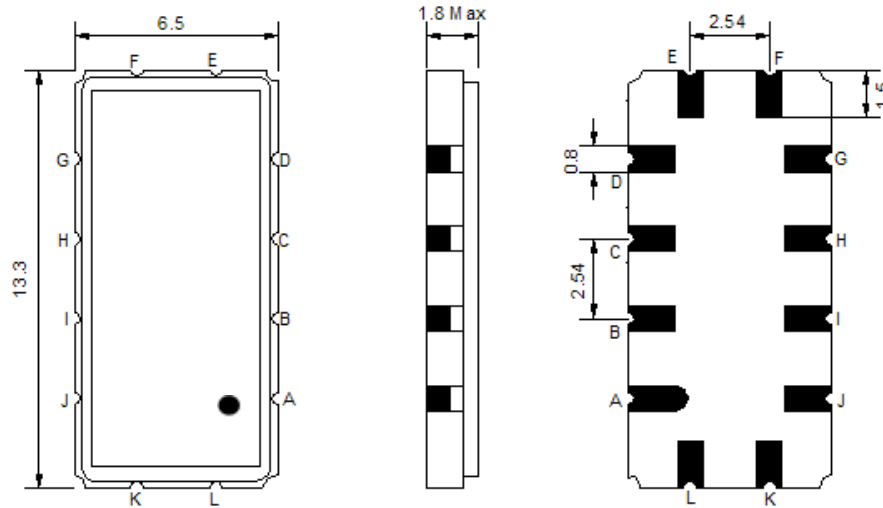
Electrical Characteristics

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	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	59.6	59.7	59.8
Insertion Loss at Fo	dB	-	17.0	19.0
Temperature Coefficient	ppm/°C	-	-20	-
Amplitude Ripple within fo ±2.2 MHz	dB _{p-p}	-	0.25	0.6
Group Delay Variation within fo ±2.2 MHz	nsec	-	32	60
Absolute Delay at Fo	µsec	-	1.4	-
Bandwidth at -1.0 dB	MHz	4.40	5.20	-
Bandwidth at -3.0 dB	MHz	-	5.76	-
Bandwidth at -40.0 dB	MHz	-	7.92	8.20
Ultimate Attenuation:	-	40	48	-

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.

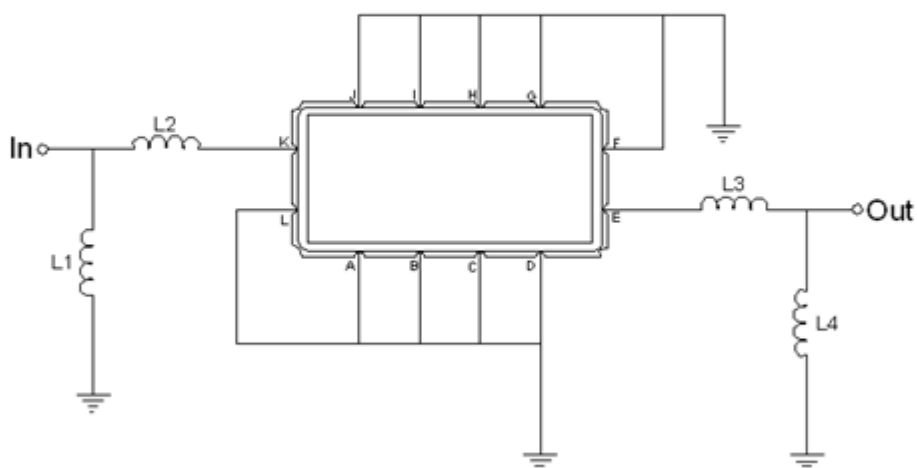
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL05905A:** 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



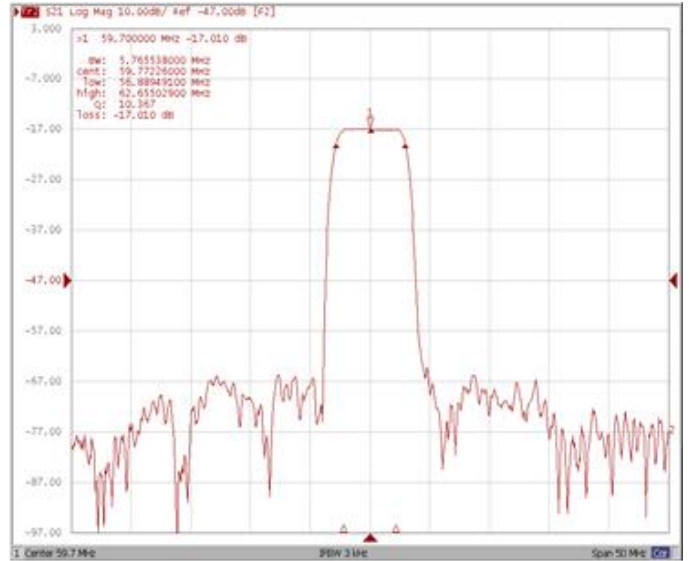
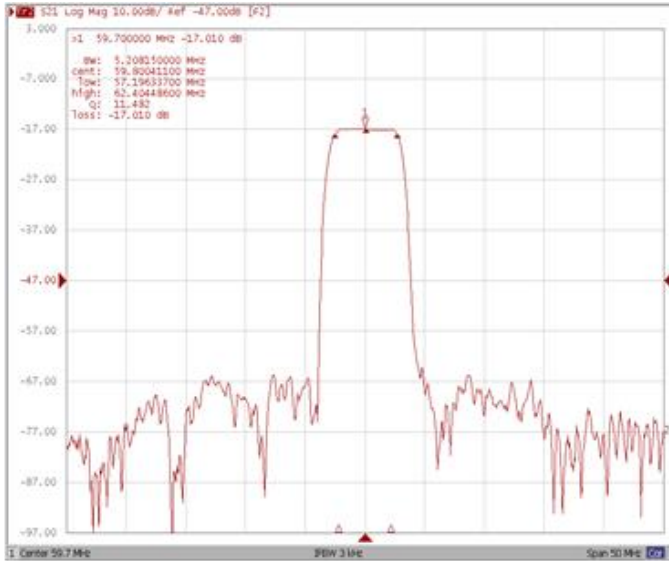
Test Fixture & Values	
Input	L1=82nH , L2=8.2nH
Output	L3=33nH , L4=100nH
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

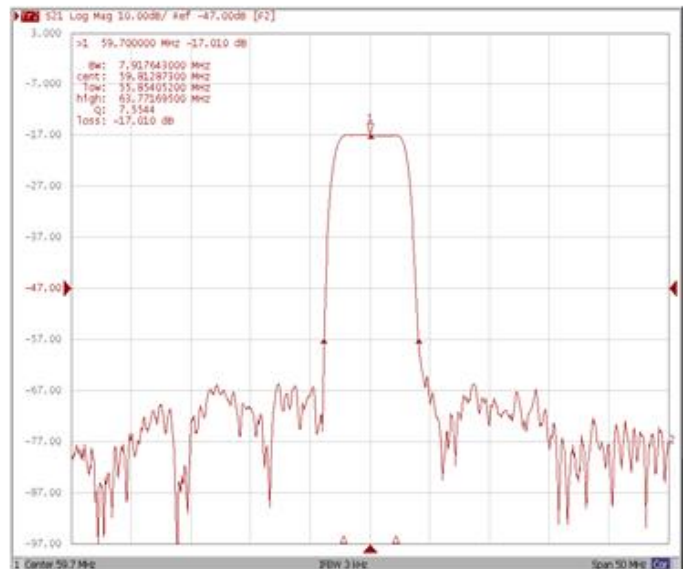
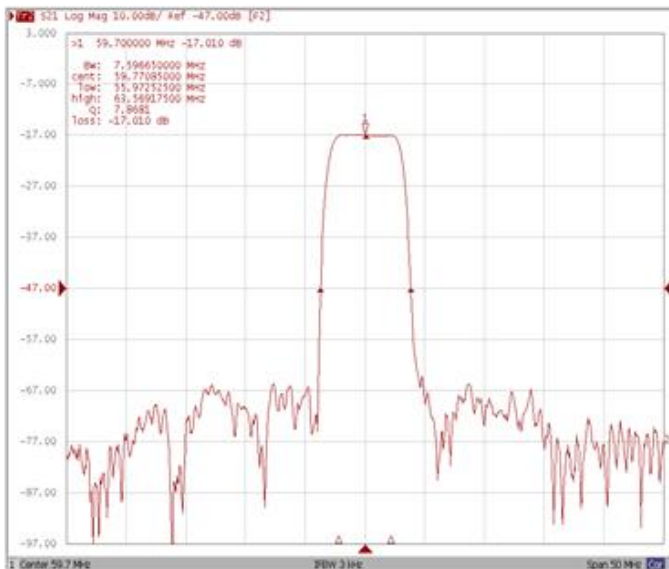
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -30.0 dB

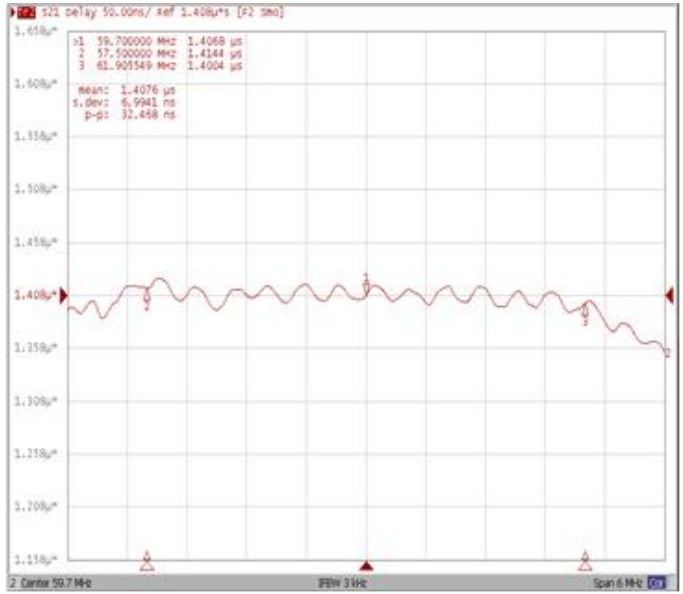
Bandwidth at -40.0 dB



Frequency Response

Ripple Variation Fo±2.2MHz

Group Delay Variation Fo±2.2MHz



Smith Chart

VSWR

