

- 57.0 MHz IF SAW Filter / 9.84 MHz Bandwidth
- Revision 0: 28. Jun. 2008

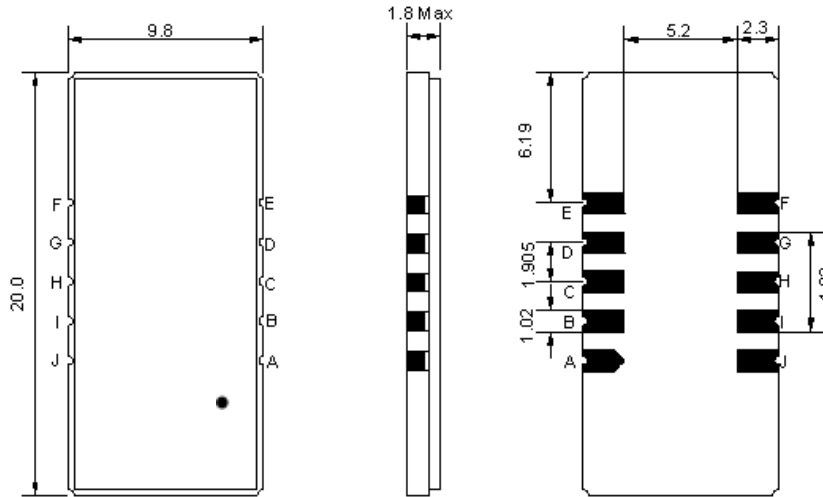
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	D1			
Length x Width	mm <sup>2</sup>	-	20.0 x 9.8	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	56.92	57.00	57.08
Insertion Loss at Fo	dB	-	20.00	22.00
Group Delay Variation	ns	-	55	100
Absolute Delay at Fo	us	-	2.31	-
Passband Ripple Variation	dB	-	0.50	0.95
Bandwidth at -1dB	MHz	-	9.84	-
Bandwidth at -3dB	MHz	10.00	10.13	-
Bandwidth at -50dB	MHz	-	11.49	11.55
Ultimate Rejection	dB	50	53	-
Temperature coefficient	ppm/°C	-	-72	-

**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.

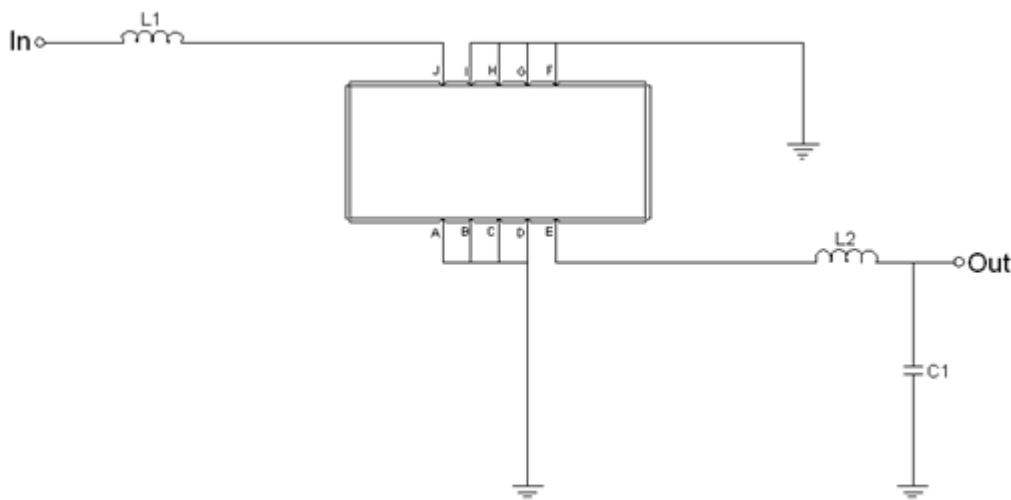
## Package Dimensions



- ② TRANSKO: Brand
- ② TA05709A: 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	Ground
J	Input
E	Output

## Testing Environment

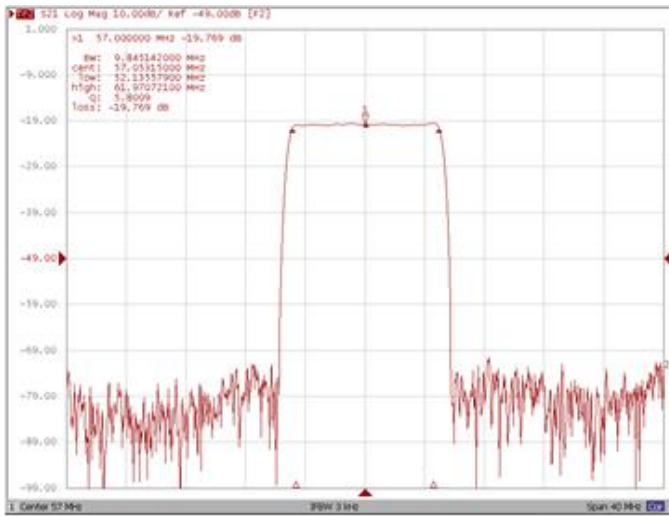


Test Fixture & Values	
Input	L1=270nH
Output	L2=150nH, C1=27pF
Source/Load Impedance	50 Ω

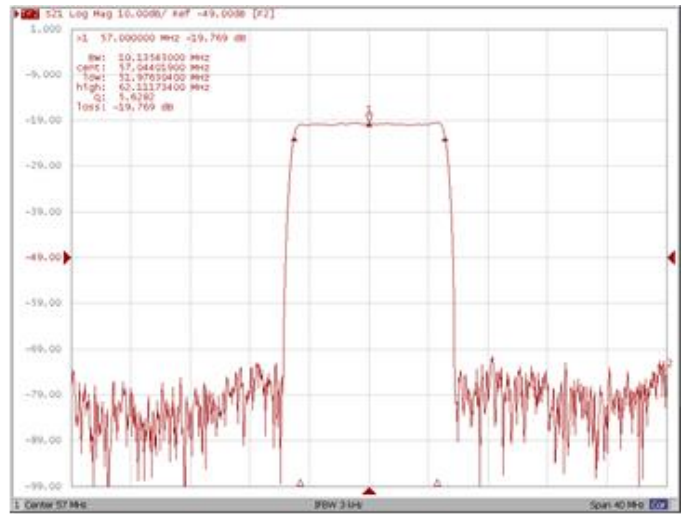
## Frequency Characteristics

### Frequency Response

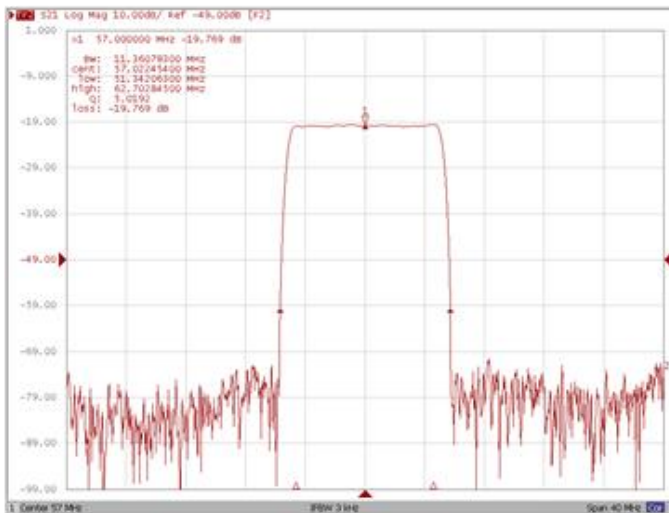
**Bandwidth at -1.0 dB**



**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**

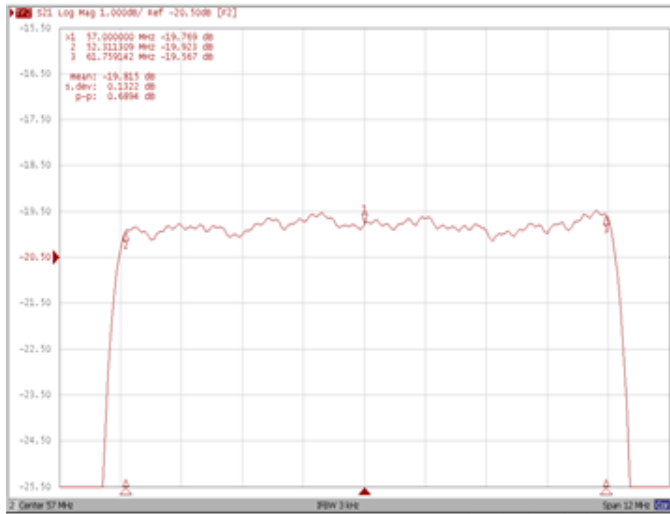


**Bandwidth at -50.0 dB**

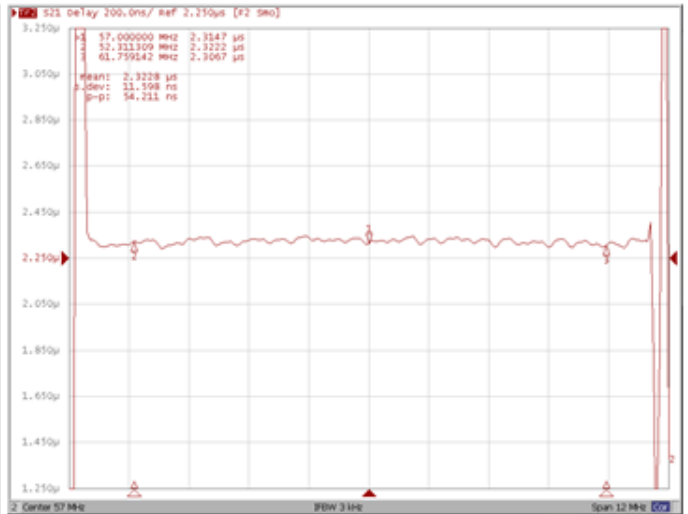


## Frequency Response

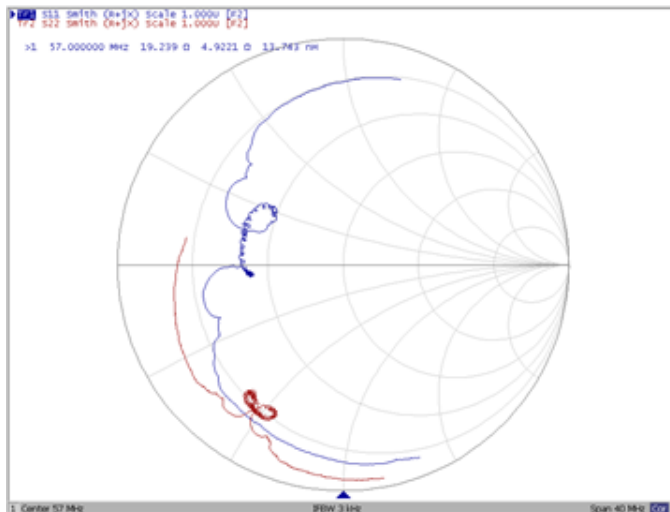
### Ripple Variation



### Group Delay Variation



### Smith Chart



### VSWR

