

- 70.0 MHz IF SAW Filter / 10.40 MHz Bandwidth
- Revision 0: 24 Nov. 2008

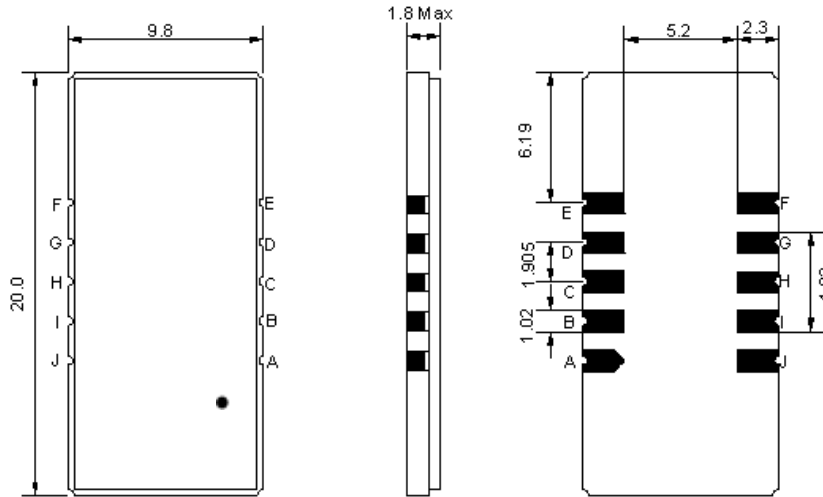
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	0	-	50
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	-	70.0	-
Insertion Loss at Fo	dB	-	19.7	22.0
Group Delay Variation (Fo±4.425MHz)	ns	-	48	80
Absolute Delay	us	-	2.0	-
Passband Ripple (Fo±4.425MHz)	dB	-	0.35	0.9
Bandwidth at -1dB	MHz	8.85	10.4	-
Bandwidth at -3dB	MHz	-	10.9	-
Bandwidth at -40dB	MHz	-	12.8	13.4
Relative Attenuation				
Lower Sidelobe	dB	50	57	-
Upper Sidelobe	dB	50	57	-
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.

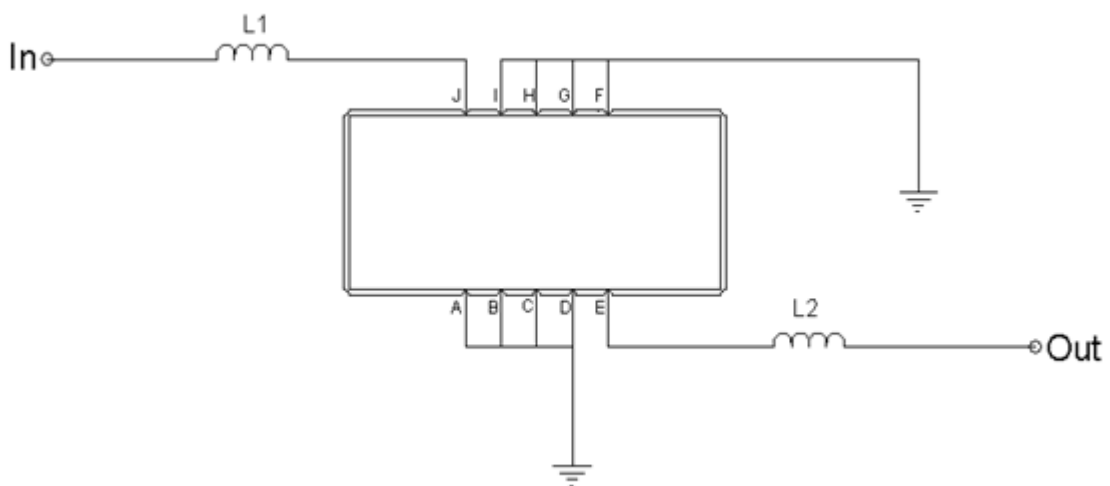
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA07010B:** 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



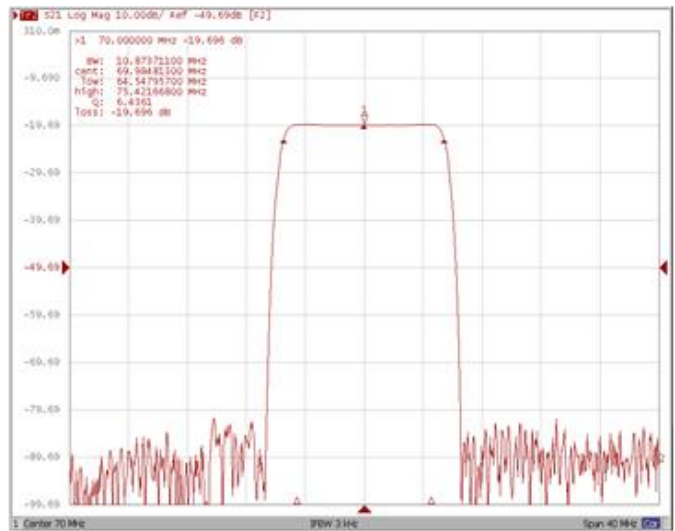
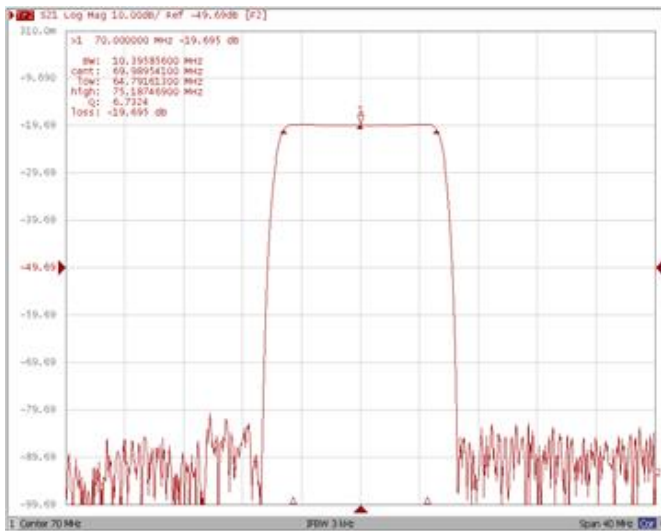
Test Fixture & Values	
Input	L1=180nH
Output	L2=100nH
Source/Load Impedance	50 Ω

## Frequency Characteristics

### Frequency Response

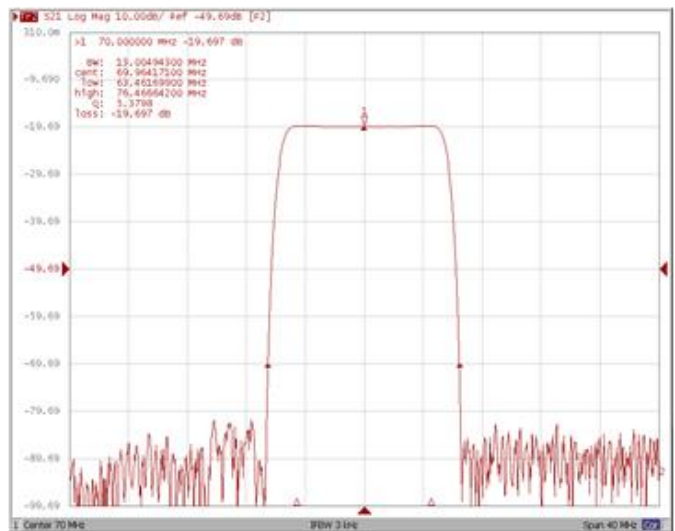
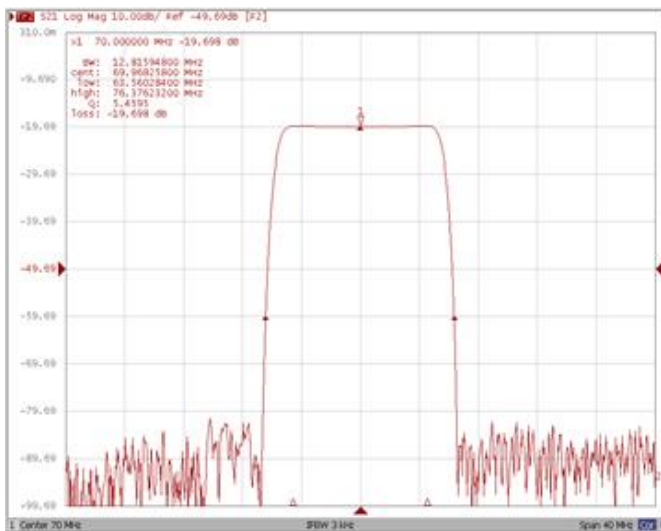
**Bandwidth at -1.0 dB**

**Bandwidth at -3.0 dB**



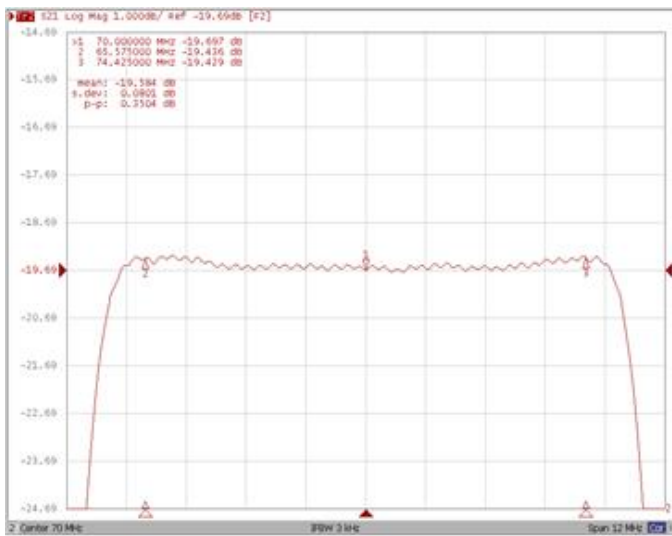
**Bandwidth at -40.0 dB**

**Bandwidth at -50.0 dB**

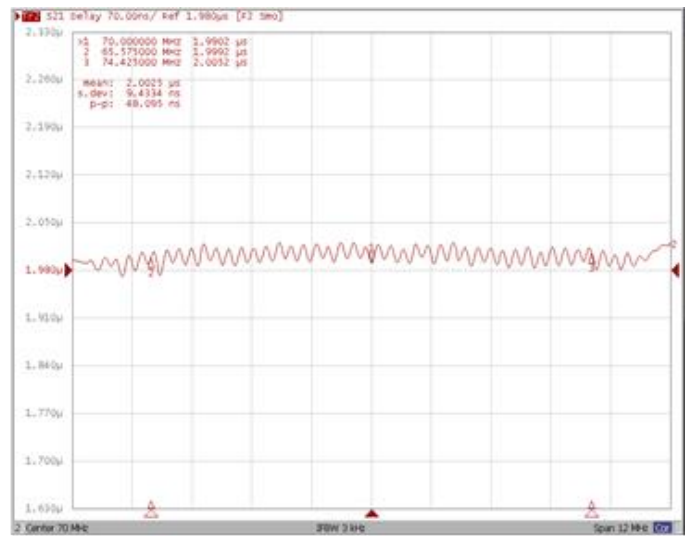


## Frequency Response

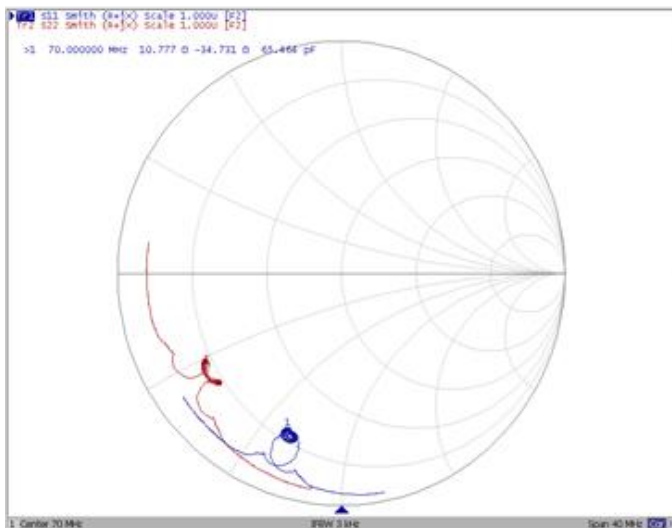
**Ripple Variation  $F_0 \pm 4.425\text{MHz}$**



**Group Delay Variation  $F_0 \pm 4.425\text{MHz}$**



**Smith Chart**



**VSWR**

