

- 184.0 MHz IF SAW Filter / 10.82 MHz Bandwidth
- Revision 0: 2. Apr. 2008

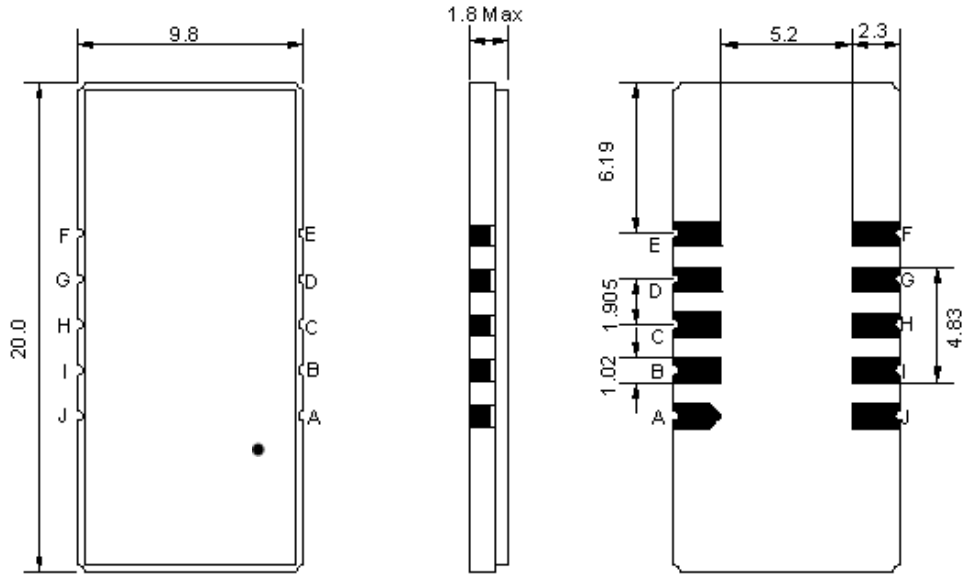
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	0		70
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	-	184.0	-
Insertion Loss at Fo	dB	-	27.0	28.5
Group Delay Variation at Fo ±5.25MHz	nsec	-	35	80
Absolute Delay at Fo	usec	-	2.59	-
Passband Ripple Variation at Fo ±5.25MHz	dB	-	0.55	1.0
Bandwidth at -1dB	MHz	10.00	10.82	-
Bandwidth at -3dB	MHz	-	11.20	-
Bandwidth at -40dB	MHz	-	12.65	12.90
Ultimate Rejection	dB	45	50	-
Relative Attenuation Fo±6.5MHz	dB	45	55	-
Temperature Coefficient	ppm/°C	-	-18	-

**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.

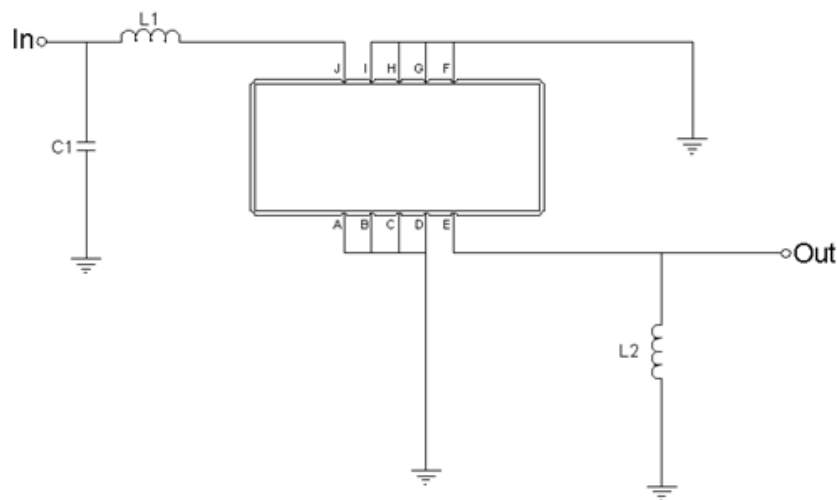
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA18410A:** 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

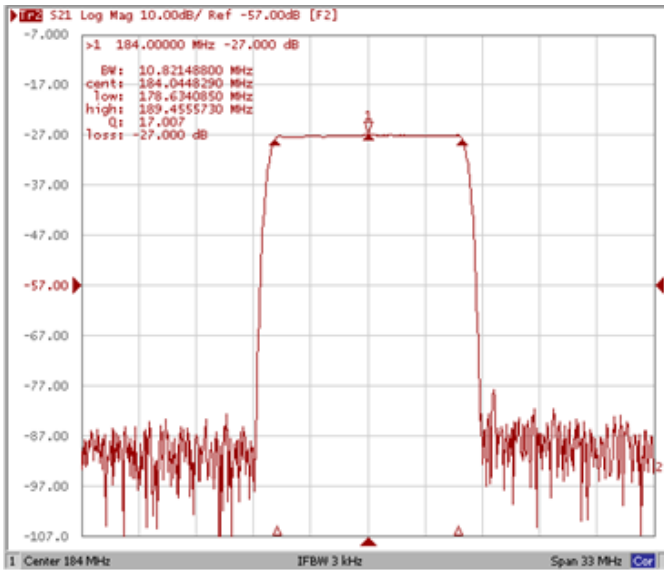


Test Fixture & Values	
Input	L1 = 27 nH , C1 = 24 pF
Output	L2 = 22nH
Source/Load Impedance	50 Ω

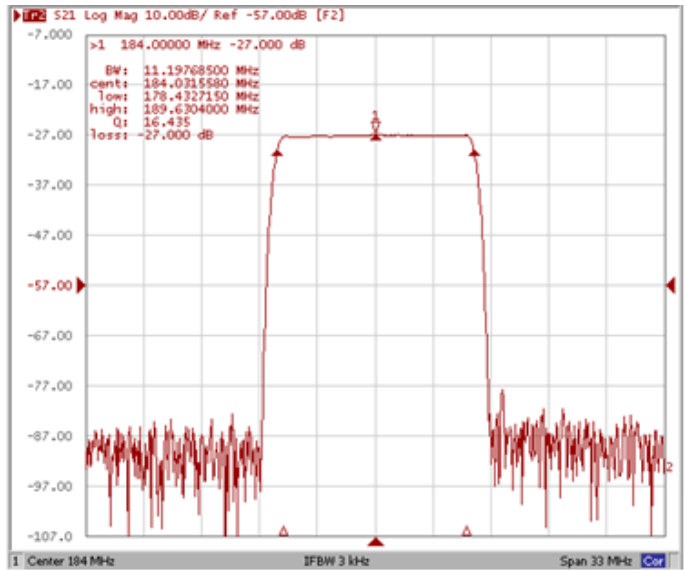
## Frequency Characteristics

**Frequency Response**

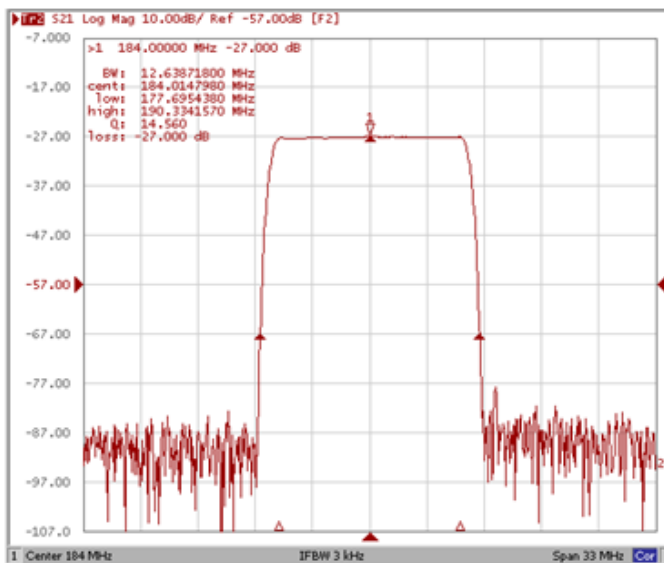
**Bandwidth at -1.0 dB**



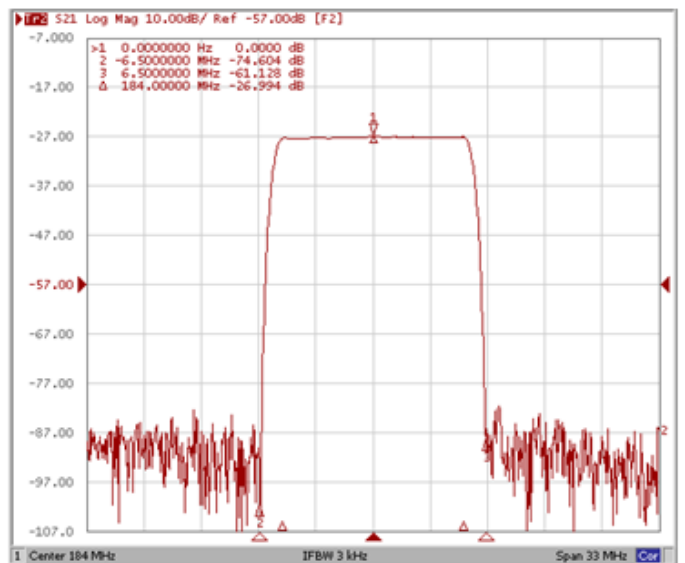
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**



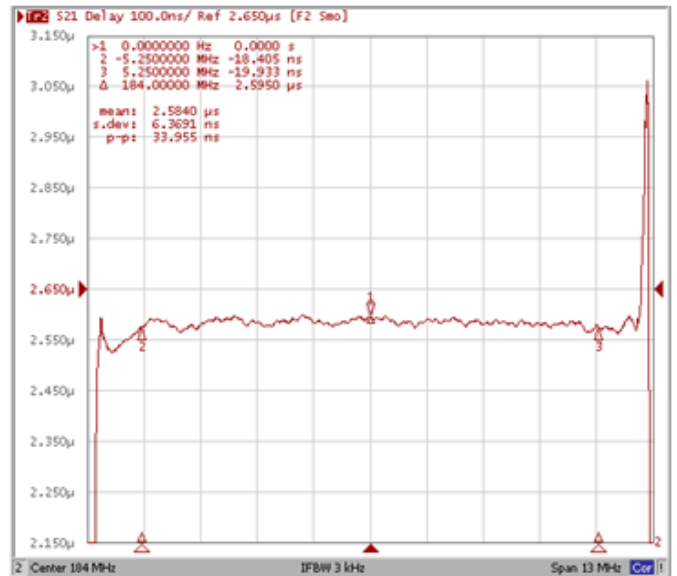
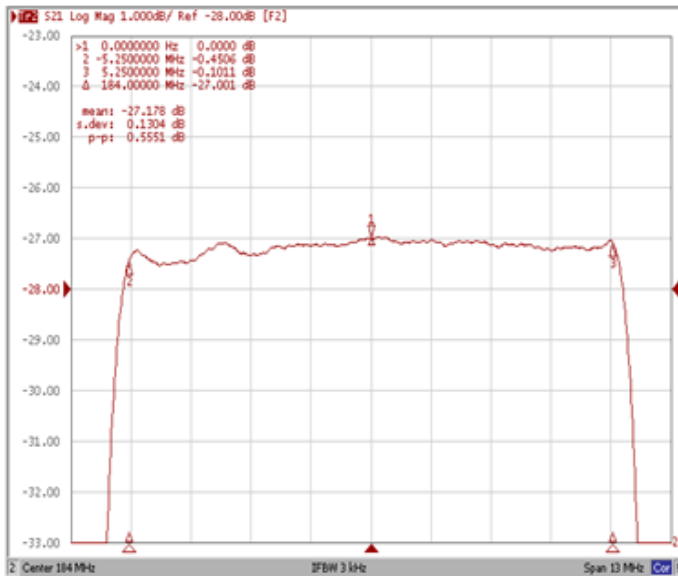
**Relative Attenuation Fo±6.5MHz**



## Frequency Response

**Ripple Variation Fo±5.25MHz**

**Group Delay Variation Fo±5.25MHz**



**Smith Chart**

**SWR**

