

- 110.1 MHz IF SAW Filter / 20.35 MHz Bandwidth
- Revision 0: 25. Jul. 2008

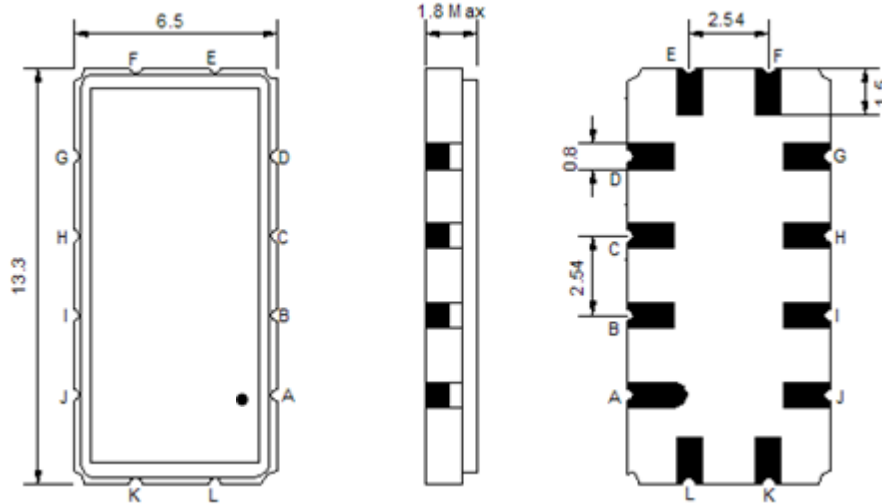
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-20	-	70
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	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	110.00	110.10	110.20
Insertion Loss at Fo	dB	-	21.50	24.00
Group Delay Variation	ns	-	30	50
Absolute Delay	us	-	1.57	-
Temperature Coefficient	ppm/°C	-	-72	-
Passband Ripple	dB	-	0.80	1.00
Bandwidth at -1dB	MHz	20.20	20.35	-
Bandwidth at -30dB	MHz	-	20.74	-
Bandwidth at -40dB	MHz	-	22.39	22.45
Ultimate Attenuation	dB	50	52	-

**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.

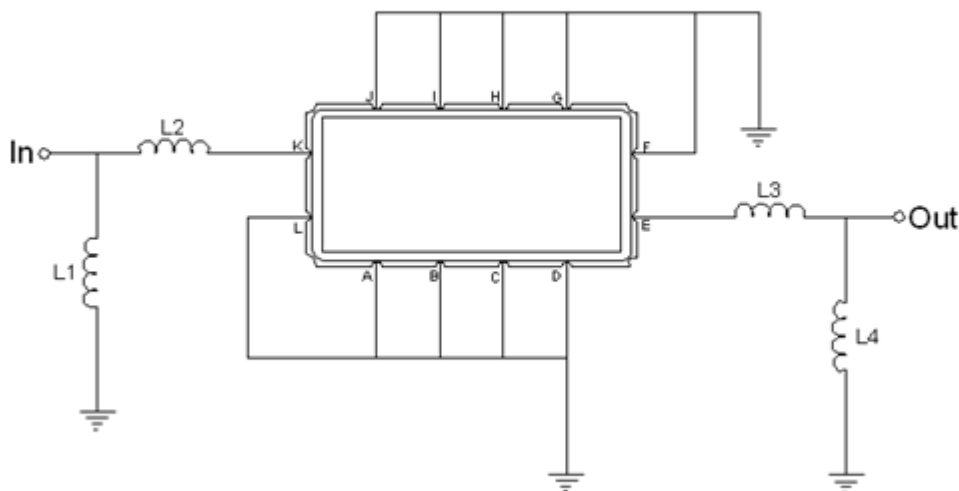
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA11020C:** 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

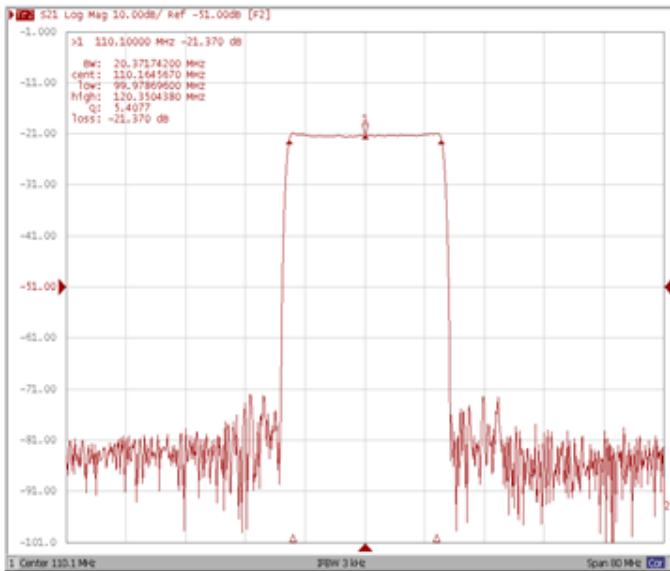


Test Fixture & Values	
Input	L1=180nH, L2=18nH
Output	L3=18nH, L4=180nH
Source/Load Impedance	50 $\Omega$

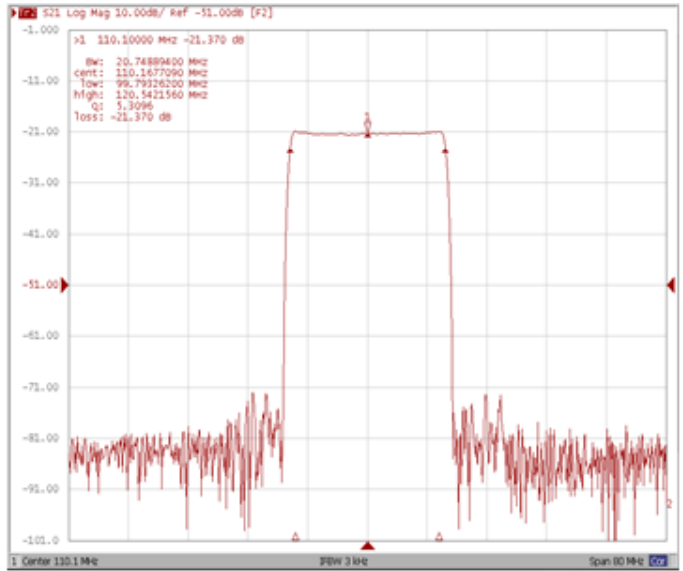
## Frequency Characteristics

### Frequency Response

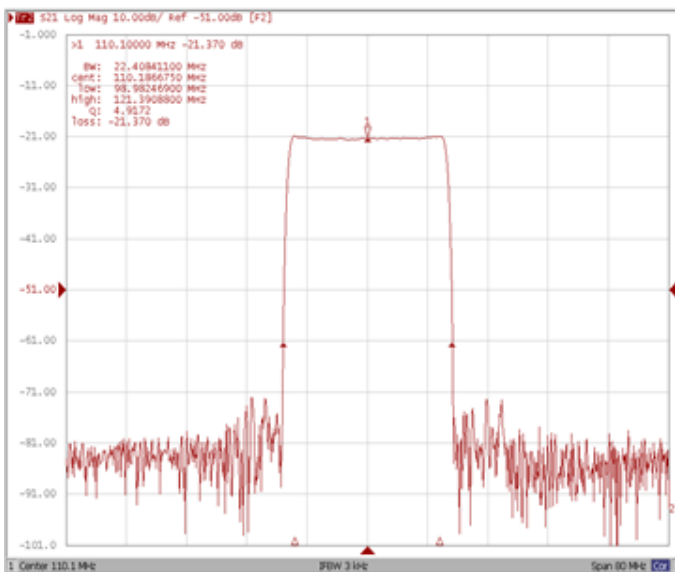
**Bandwidth at -1.0 dB**



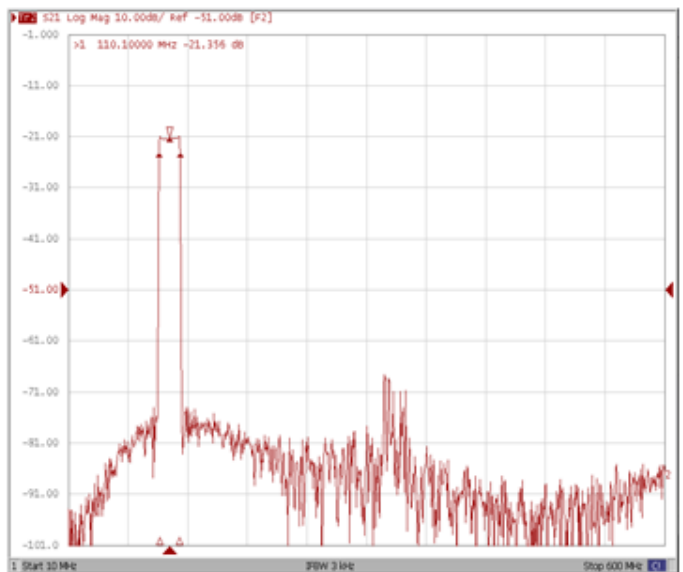
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**



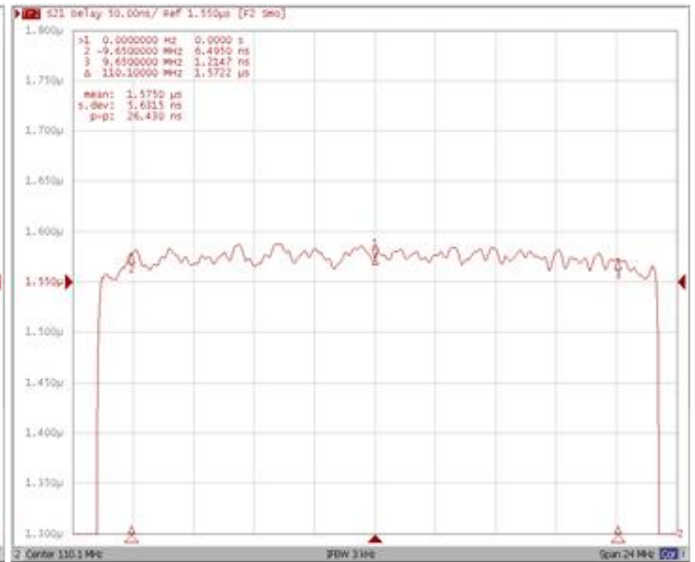
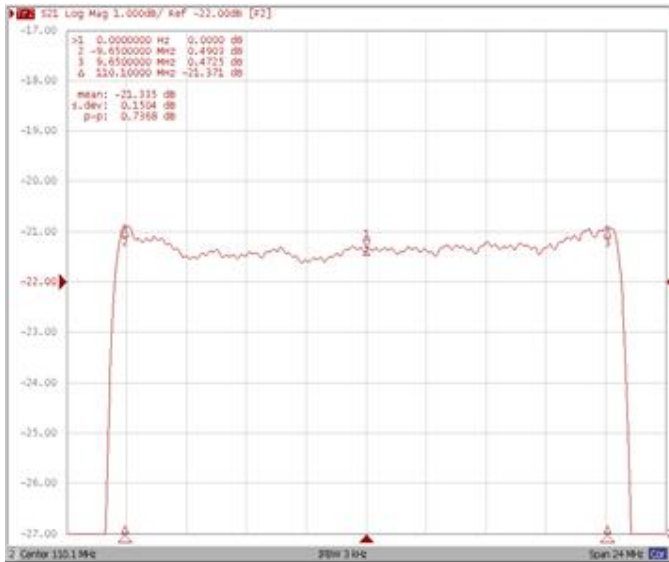
**Wide-Band**



## Frequency Response

**Ripple Variation Fo±9.65MHz**

**Group Delay Variation Fo±9.65MHz**



**Smith Chart**

**VSWR**

