

- 67.50 MHz IF SAW Filter / 20.30 MHz Bandwidth
- Revision 0: 06 Aug. 2009

## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-20	-	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	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	-	67.50	-
Insertion Loss at Fo	dB	-	13.20	15.50
Group Delay Variation at Fo±9.52MHz	ns	-	35	60
Absolute Delay Time at Fo	us	-	1.04	-
Amplitude Ripple at Fo±9.52MHz	dB	-	0.38	0.90
Bandwidth at -1dB	MHz	-	20.30	-
Bandwidth at -3dB	MHz	20.90	21.05	-
Bandwidth at -40dB	MHz	-	24.30	24.60
Relative Attenuation:				
Lower Sidelobe	dB	40	47	-
Upper Sidelobe	dB	40	47	-
Temperature Coefficient	ppm/°C	-	-86	-

**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.

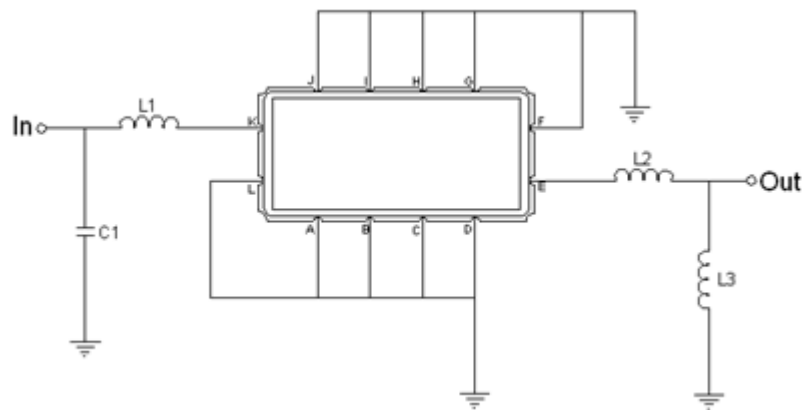
## Package Dimensions



- ① TRANSKO: Brand
- ② TL06720A: 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

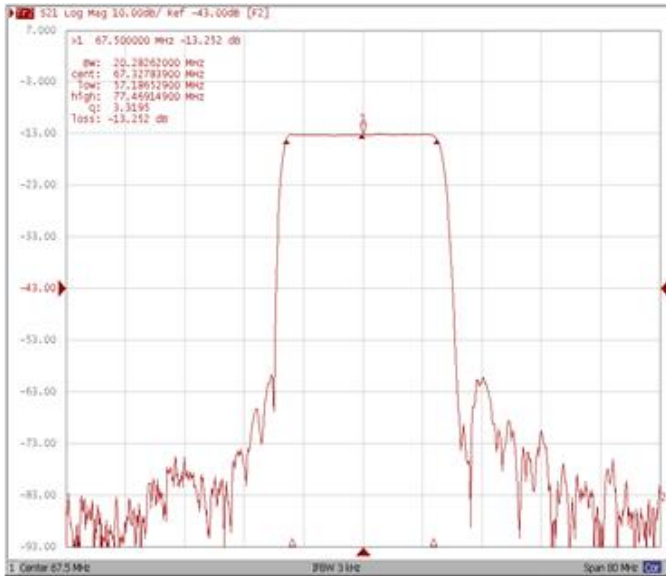


Test Fixture & Values	
Input	L1 = 120 nH, C1 = 75 pF
Output	L2 = 33 nH, L3 = 120 nH
Source/Load Impedance	50 Ω

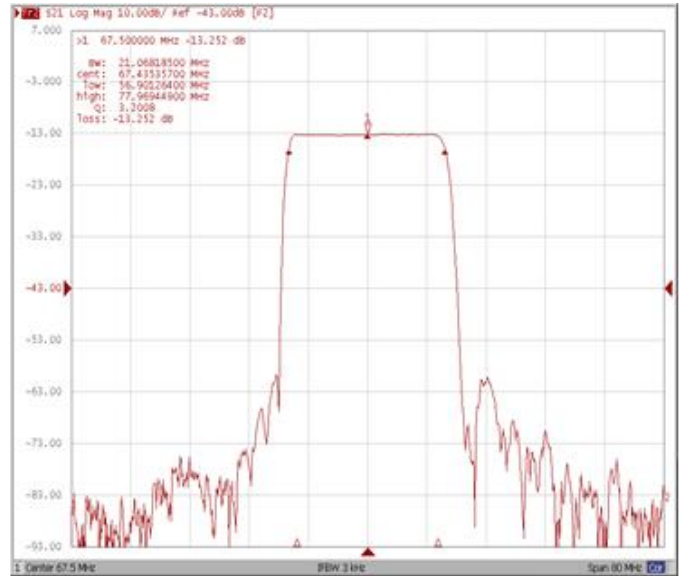
## Frequency Characteristics

### Frequency Response

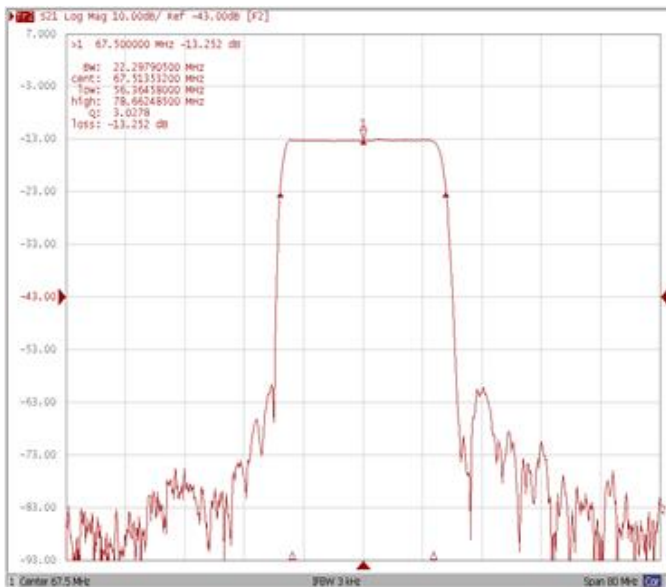
**Bandwidth at -1.0 dB**



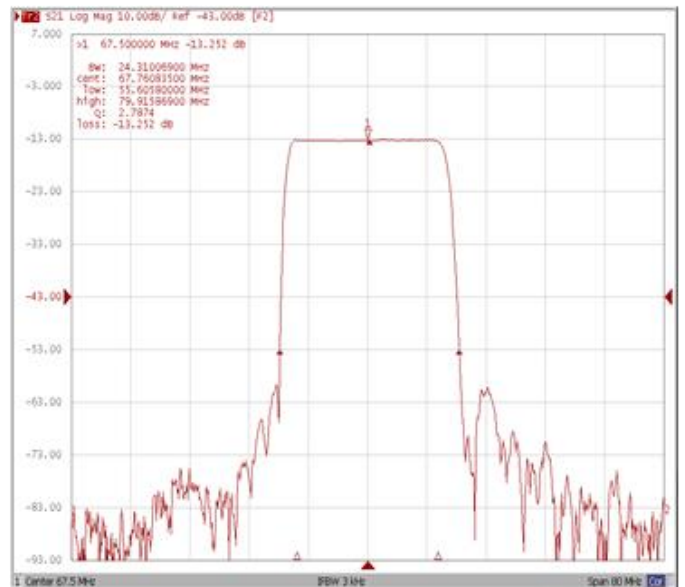
**Bandwidth at -3.0 dB**



**Bandwidth at -10.0 dB**



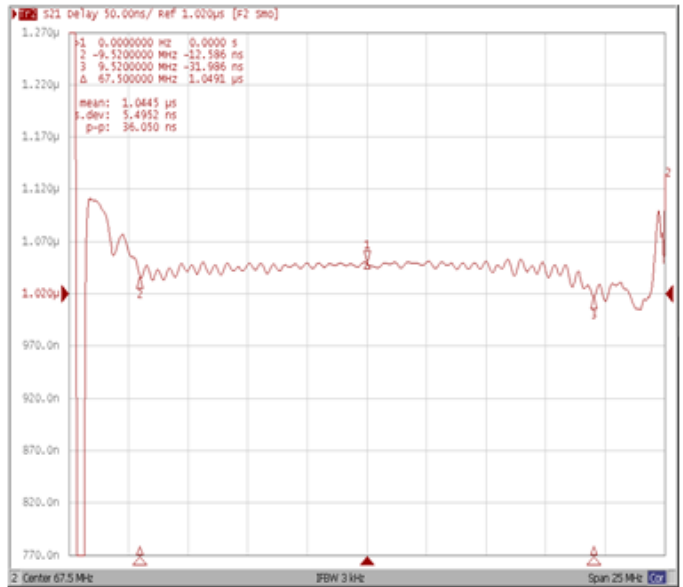
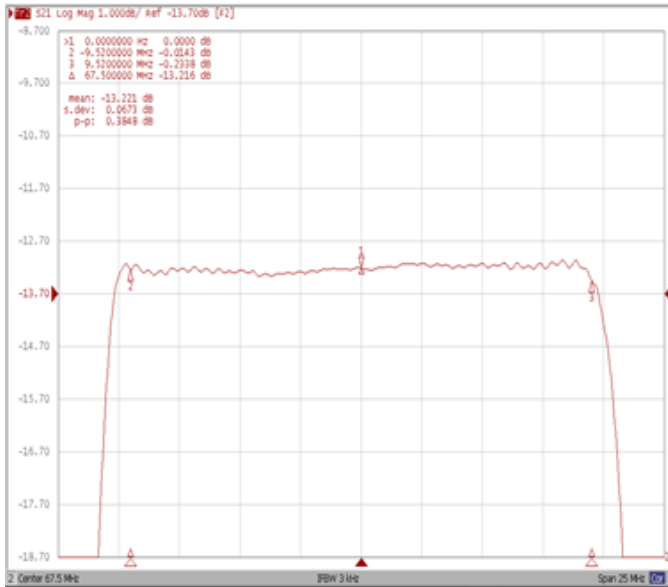
**Bandwidth at -40.0 dB**



**Frequency Response**

**Ripple Variation Fo±9.52MHz**

**Group Delay Variation Fo±9.52MHz**



**Smith Chart**

**VSWR**

