

- 122.50MHz IF SAW Filter / 20.88 MHz Bandwidth
- Revision 0: 06 Aug. 2009

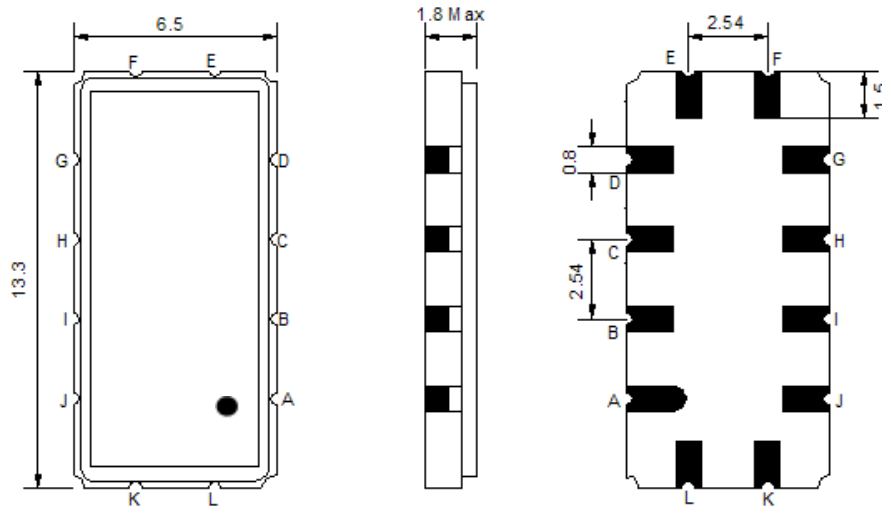
Electrical Characteristics

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) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	V			
Length x Width	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	122.50	-
Insertion Loss at Fo	dB	-	14.50	16.00
Group Delay Variation at Fo±9.52MHz	ns	-	22	50
Absolute Delay Time at Fo	us	-	1.01	-
Amplitude Ripple at Fo±9.52MHz	dB	-	0.32	0.80
Bandwidth at -1dB	MHz	20.50	20.88	-
Bandwidth at -3dB	MHz	21.30	21.53	-
Bandwidth at -40dB	MHz	-	24.26	24.50
Relative Attenuation:				
Lower Sidelobe	dB	40	48	-
Upper Sidelobe	dB	40	48	-
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.

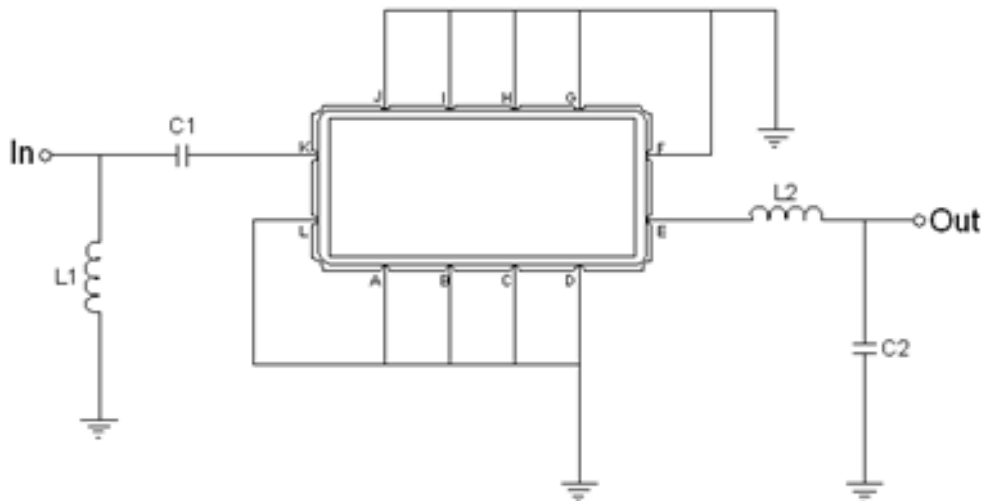
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL1220A:** 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

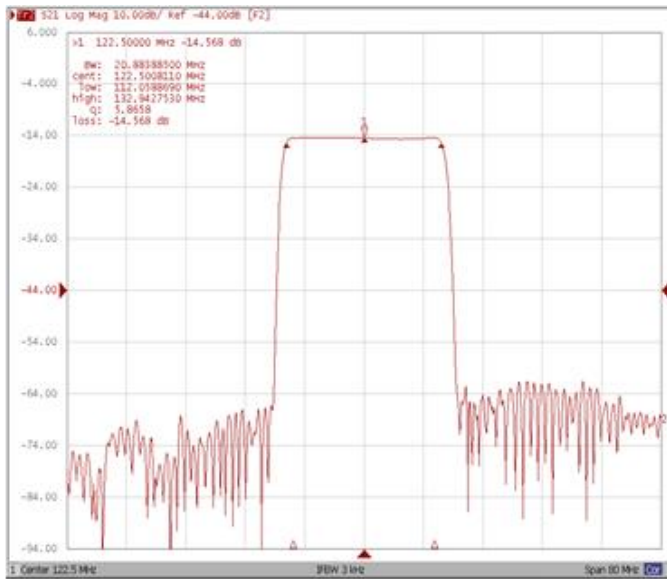


Test Fixture & Values	
Input	L1 = 27 nH, C1 = 100 pF
Output	L2 = 22 nH, C2 = 56 pF
Source/Load Impedance	50 Ω

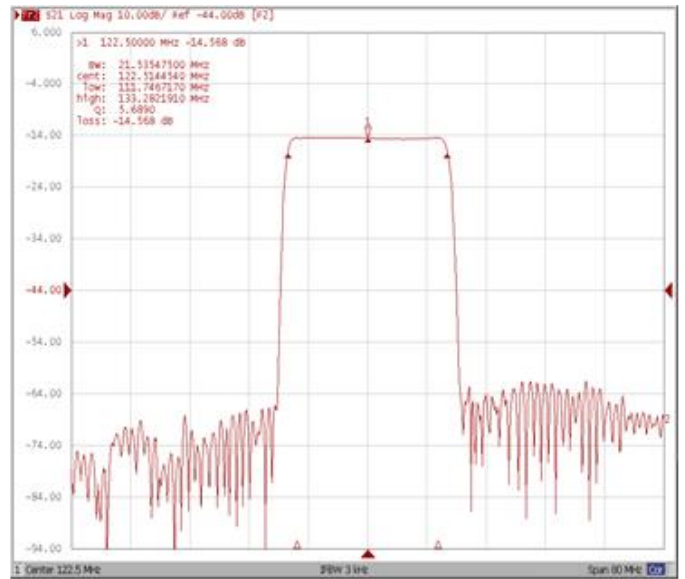
Frequency Characteristics

Frequency Response

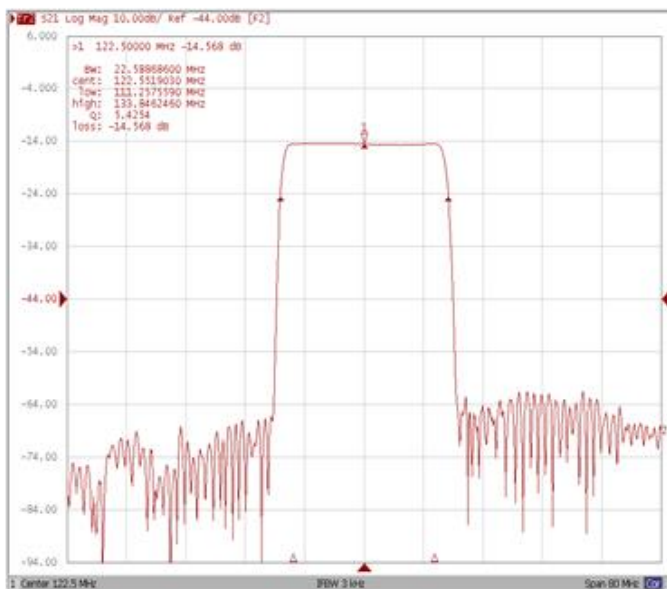
Bandwidth at -1.0 dB



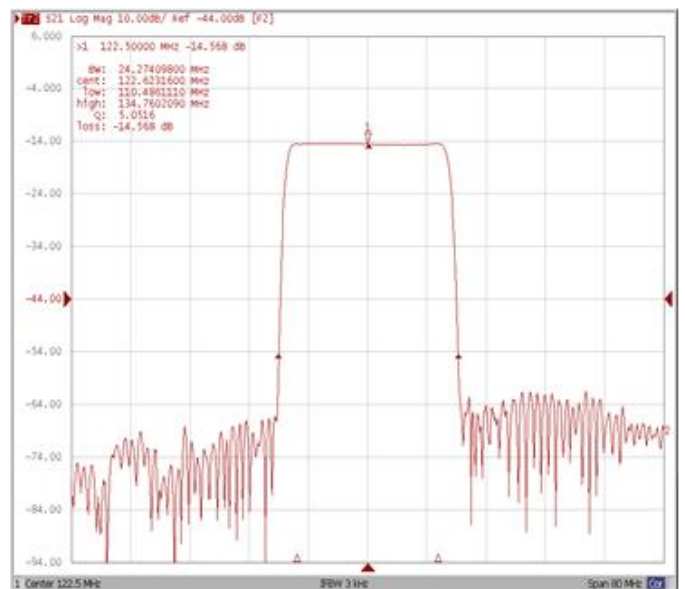
Bandwidth at -3.0 dB



Bandwidth at -10.0 dB

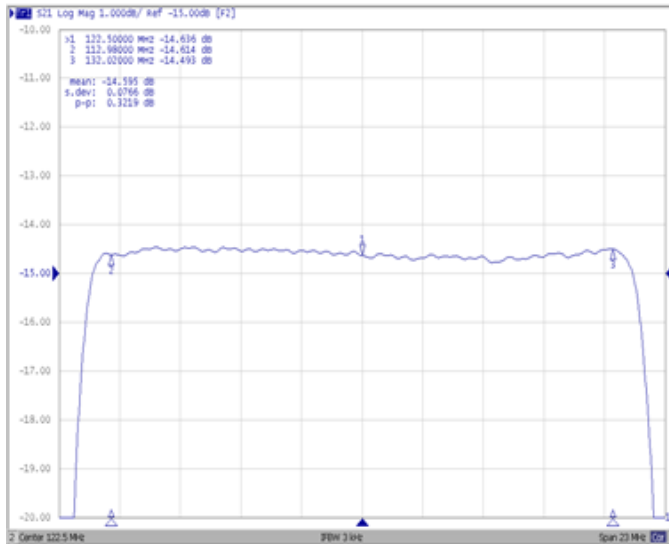


Bandwidth at -40.0 dB

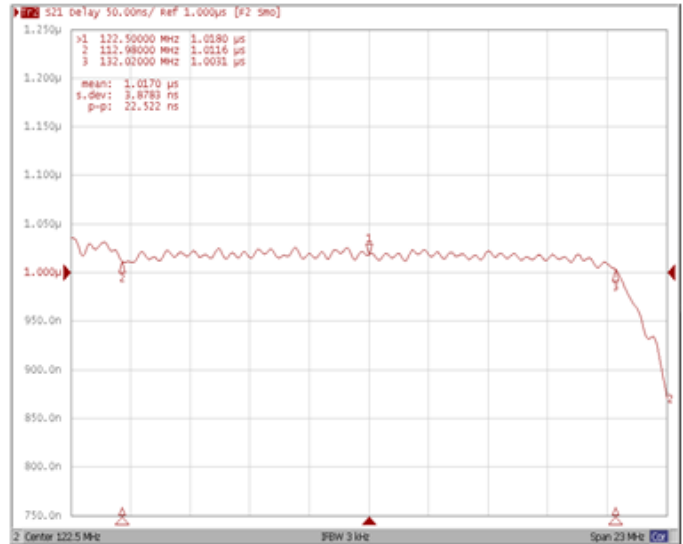


Frequency Response

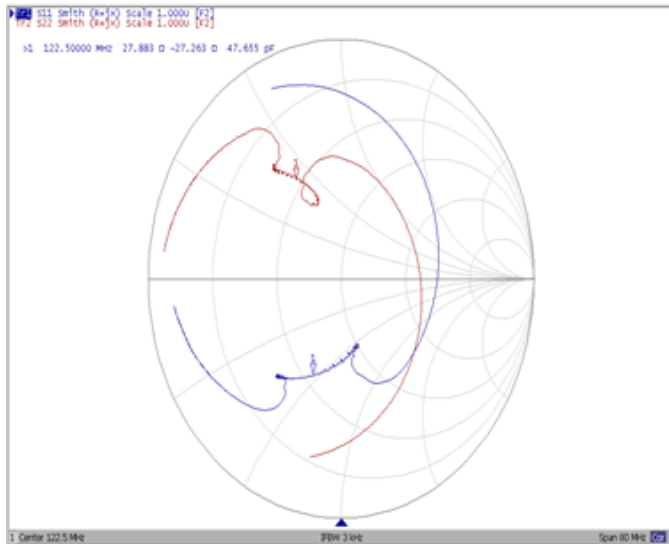
Ripple Variation Fo±9.52MHz



Group Delay Variation Fo±9.52MHz



Smith Chart



VSWR

