

- 211.20 MHz IF SAW Filter / 20.84 MHz Bandwidth
- Revision 0: 24 Mar. 2008

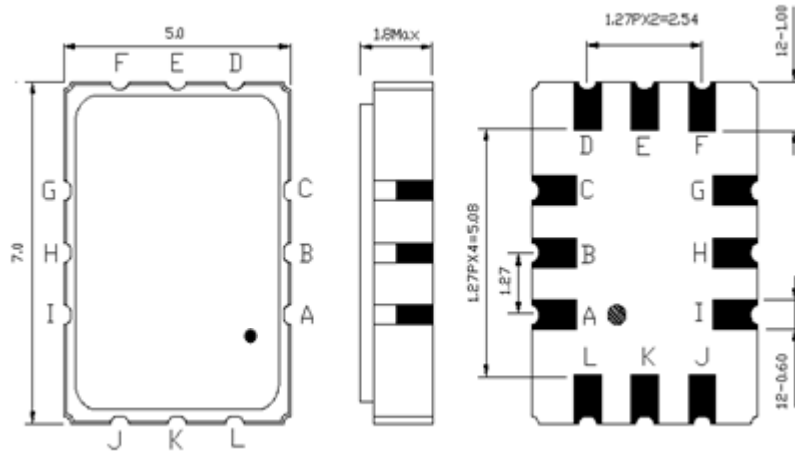
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-40	-	85
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (Balanced) ⁽¹⁾	Ω	-	50	-
Load Impedance (Balanced) ⁽¹⁾	Ω	-	50	-
Package type & size	S1			
Length x Width	mm ²	-	7.0 x 5.0	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	211.2	-
Insertion Loss at Fo	dB	-	17.6	19.0
Amplitude Ripple at Fo ± 9.42MHz	dB _{p-p}	-	0.8	1.5
Amplitude Ripple at Fo ± 10.0MHz	dB _{p-p}	-	0.9	2.0
Group Delay Variation at Fo ± 10.0MHz	ns	-	70	120
Absolute Delay at Fo	µs	-	0.68	-
Temperature Coefficient	ppm/°C	-	-18	-
Bandwidth at -1.0 dB	MHz	18.84	20.84	-
Bandwidth at -40.0 dB	MHz	-	27.66	29.00
VSWR	-	-	-	2.2
Relative Attenuation:				
10MHz ~ 100MHz	dB	50	-	-
100MHz ~ 168MHz	dB	52	-	-
168MHz ~ 196.5MHz	dB	35	-	-
250MHz ~ 270MHz	dB	58	-	-
270MHz ~ 350MHz	dB	60	-	-
350MHz ~ 1000MHz	dB	45	-	-

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.

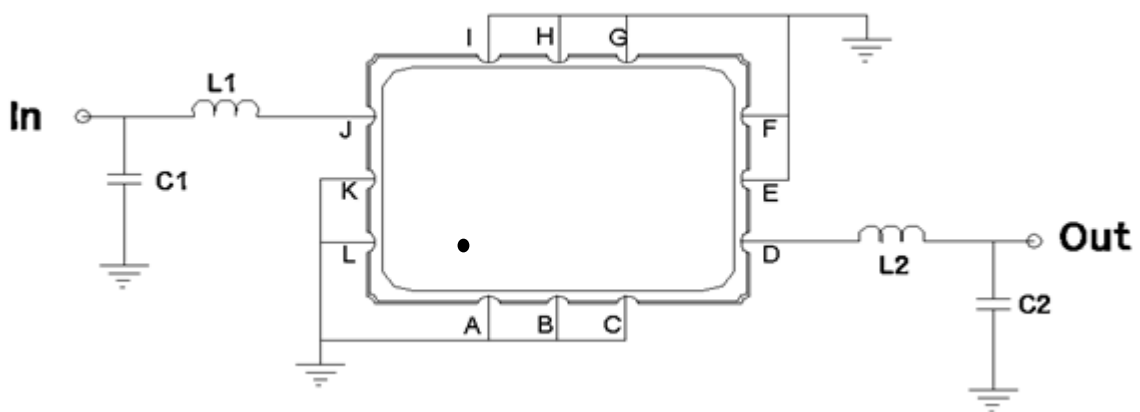
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL21120A:** Model Name
- ③ **X :** Date Code (Year)
- ④ **Y :** Date Code (Month)
- ⑤ **Z:** Date Code (Date)
- : Index Dot

Pin Description	
A, B, C, E, F, G, H, I, K, L	Ground
J	Input
L	Input Ground
D	Output
F	Output Ground

Testing Environment

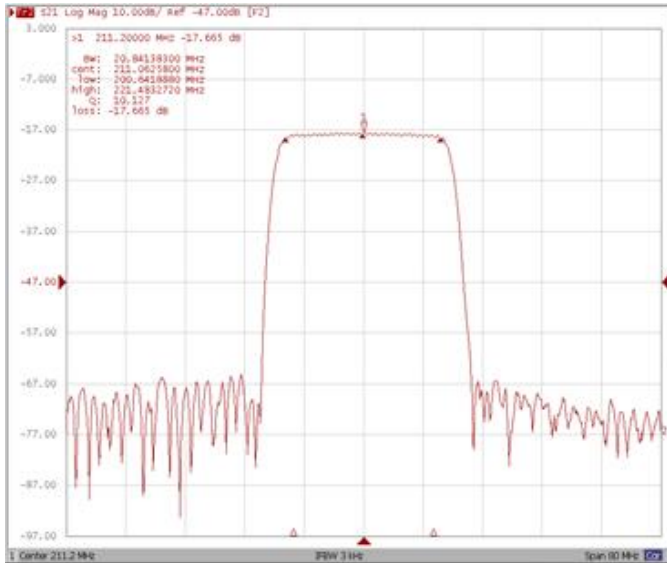


Test Fixture & Values	
Input	L1=27 nH , C1=33 pF
Output	L2=27 nH , C2=33 pF
Source/Load Impedance	50 Ω

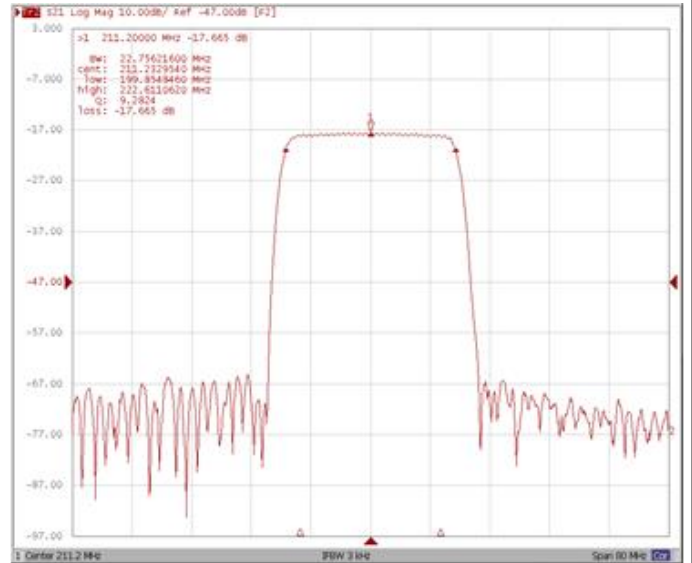
Frequency Characteristics

Frequency Response

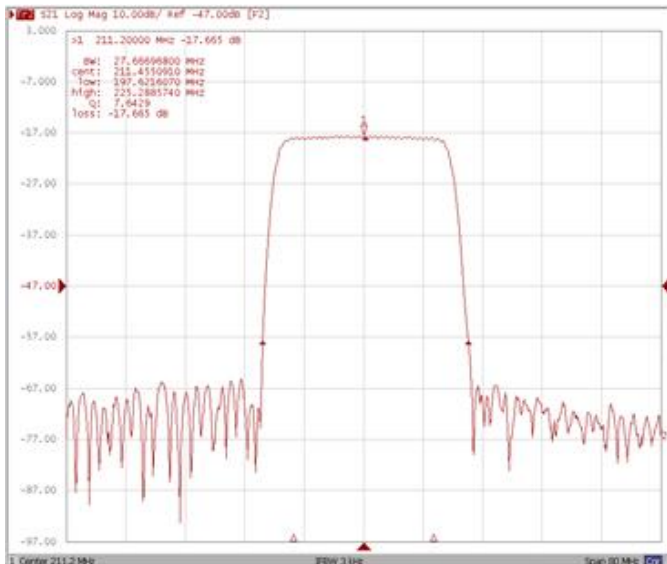
Bandwidth at -1.0 dB



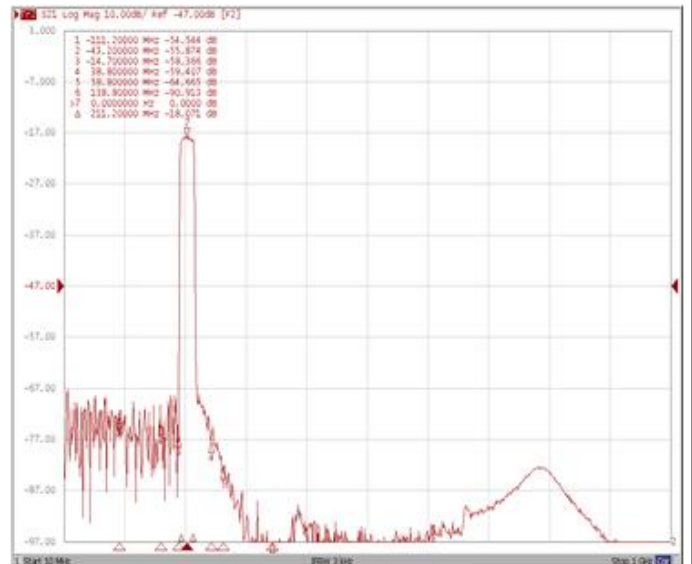
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

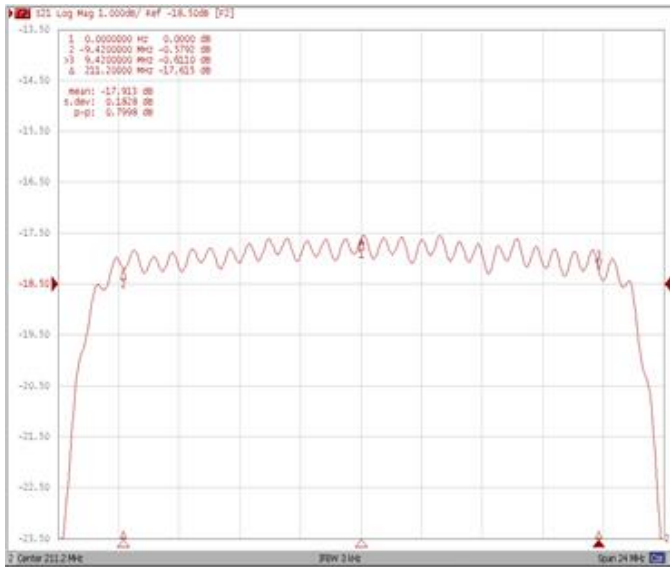


Wide-Band

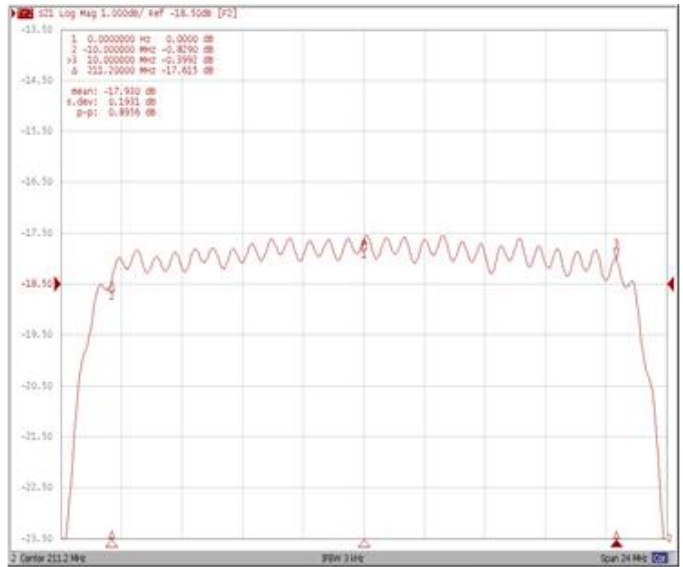


Frequency Response

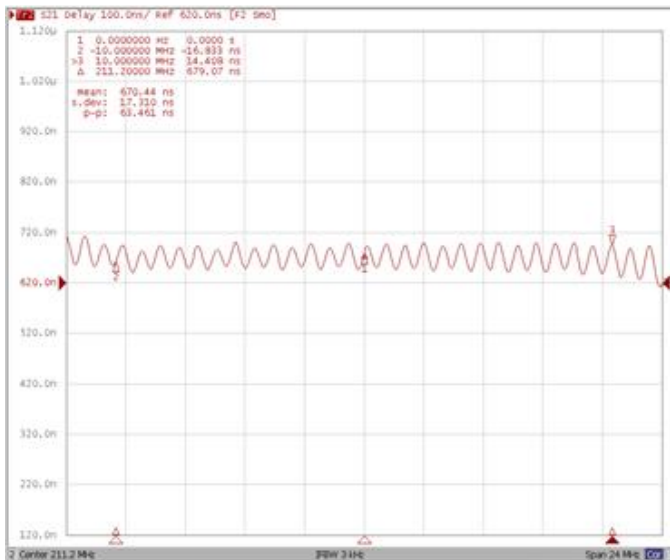
Ripple Variation at Fo ±9.42MHz



Ripple Variation at Fo ±10.0MHz



Group Delay Variation at Fo ±10.0MHz



Smith Chart

