

- 83.0625MHz IF SAW Filter / 2.17 MHz Bandwidth
- Revision 0: 29. Nov. 2007

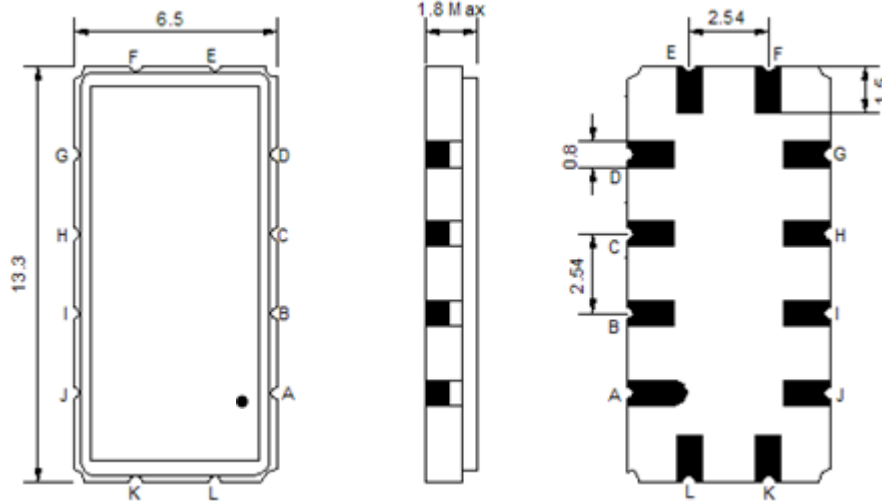
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	0	-	60
Storage Temperature Range	°C	-20	-	70
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	-	83.0625	-
Insertion Loss at Fo	dB	-	21.6	23.5
Group Delay Variation (Fo±0.9375MHz)	ns	-	50	100
Absolute Delay	us	-	1.81	-
Passband Ripple (Fo±0.9375MHz)	dB	-	0.2	1.00
Bandwidth at -1dB	MHz	1.875	2.79	-
Bandwidth at -30dB	MHz	-	3.78	-
Bandwidth at -40dB	MHz	-	3.92	4.62
Ultimate Rejection	dB	-	48	-
Relative Attenuation Fo±2.1625MHz	dB	30	50	

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.

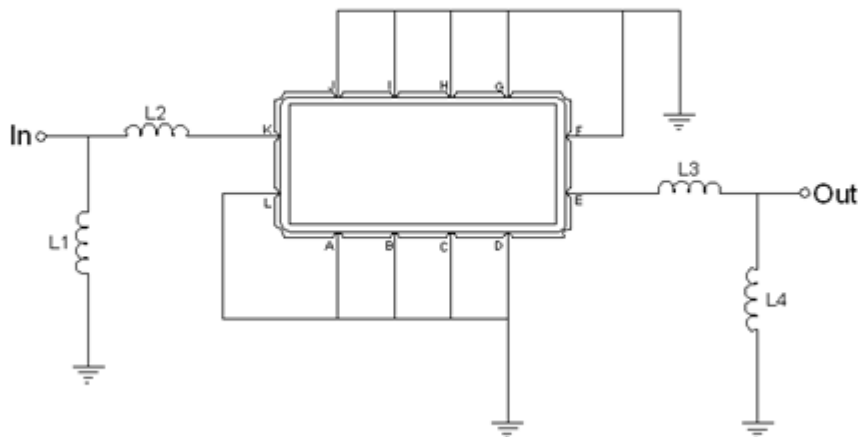
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA8302A:** 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

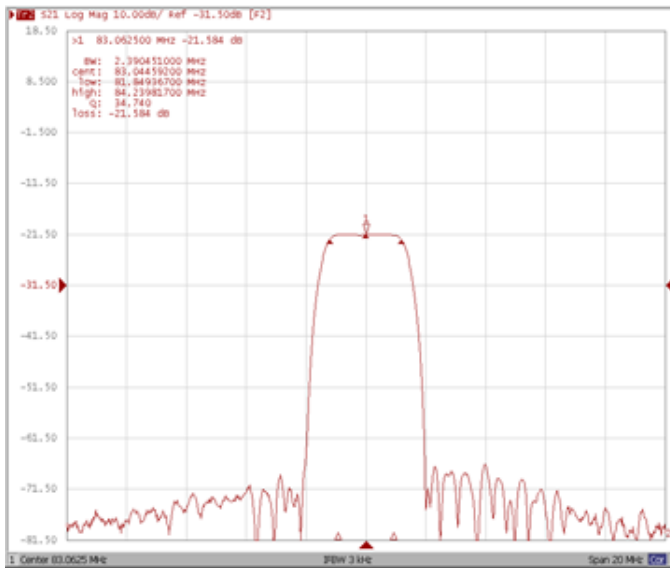


Test Fixture & Values	
Input	L1=68nH, L2=220nH
Output	L3=180nH, L4=68nH
Source/Load Impedance	50 Ω

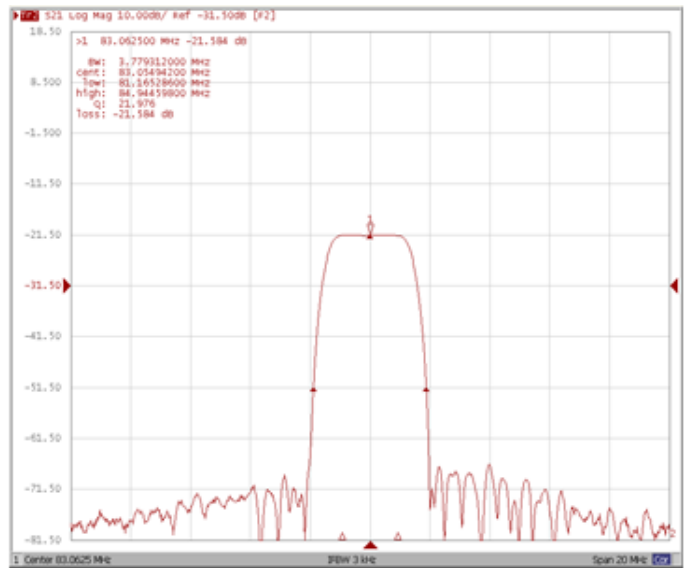
Frequency Characteristics

Frequency Response

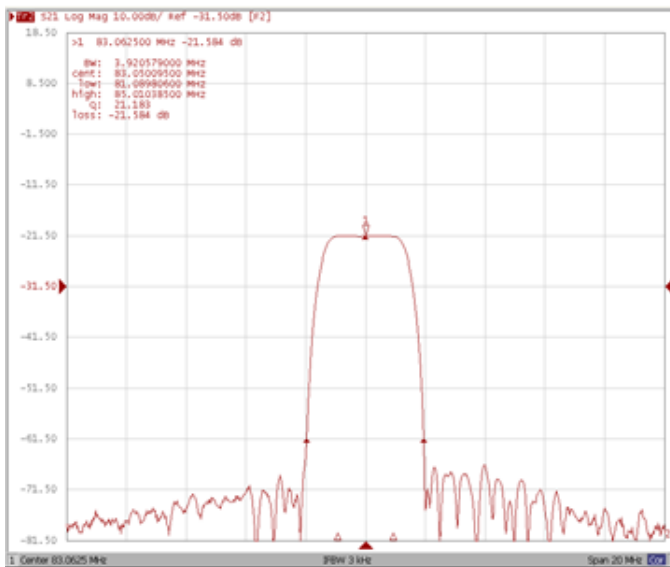
Bandwidth at -1.0 dB



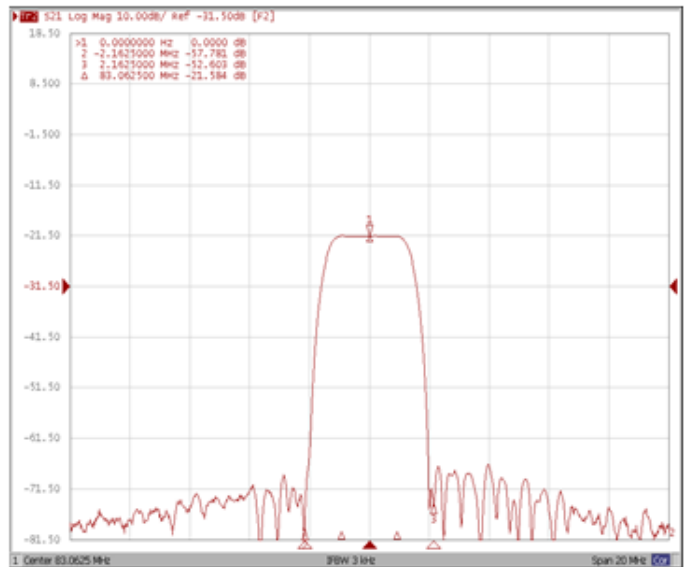
Bandwidth at -30.0 dB



Bandwidth at -40.0 dB

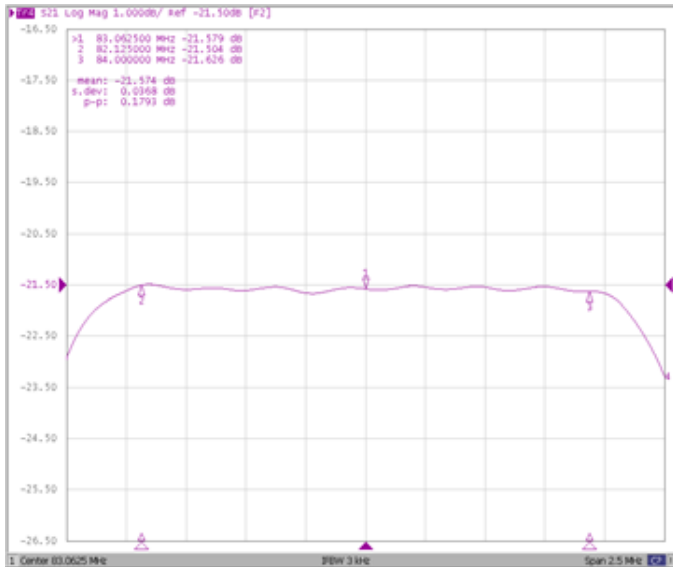


Relative Attenuation Fo±2.1625MHz

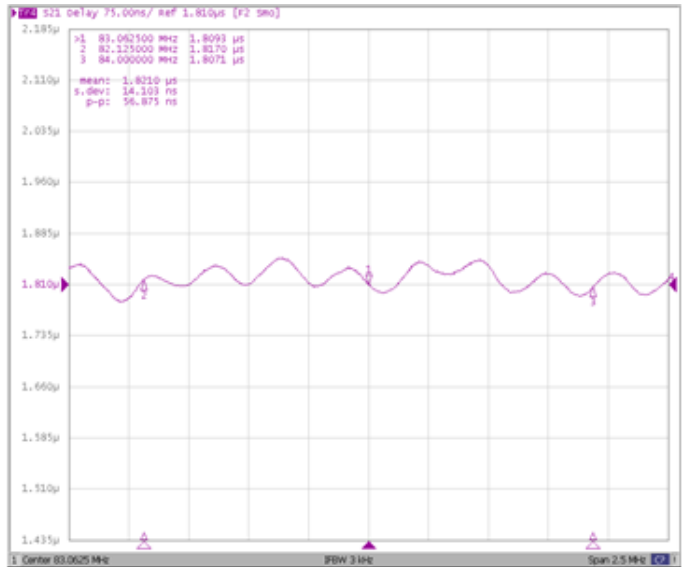


Frequency Response

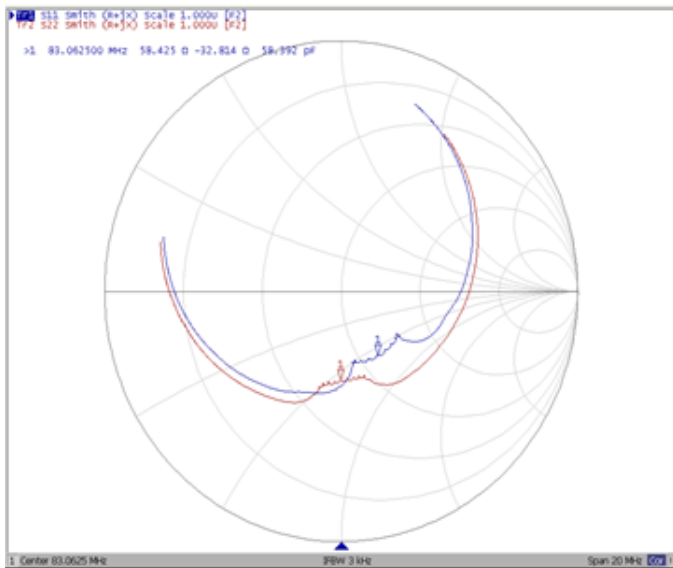
Ripple Variation Fo±0.9375MHz



Group Delay Variation Fo±0.9375MHz



Smith Chart



VSWR

