

- 128.0625 MHz IF SAW Filter / 1.875 MHz Bandwidth
- Revision 0: 05 Dec. 2007

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating 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	127.9625	128.0625	128.1625
Insertion Loss at Fo	dB	-	20.0	24.0
Group Delay Variation (Fo±0.9375MHz)	nsec	-	60	120
Absolute Delay	usec	-	1.72	-
Temperature Coefficient	ppm/°C	-	-0.03	-
Passband Ripple (Fo±0.9375MHz)	dB	-	0.4	1.00
Bandwidth at -1dB	MHz	1.875	2.24	-
Bandwidth at -30dB	MHz	-	3.71	-
Bandwidth at -40dB	MHz	-	3.89	4.50
Ultimate Rejection	dB	48	53	-
Relative Attenuation Fo±2.1625MHz	dB	30	60	-

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.

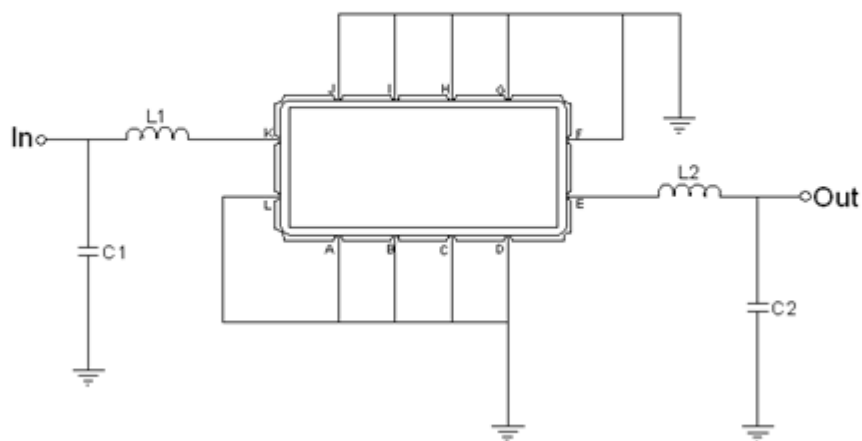
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL12802A:** 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



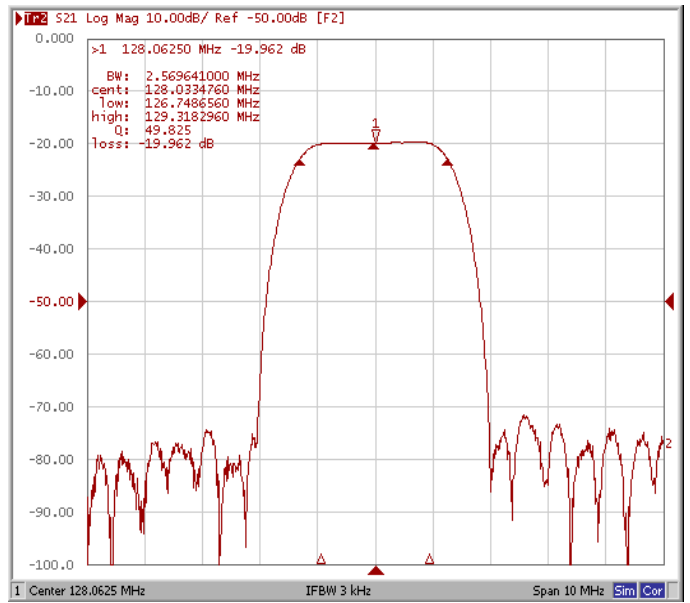
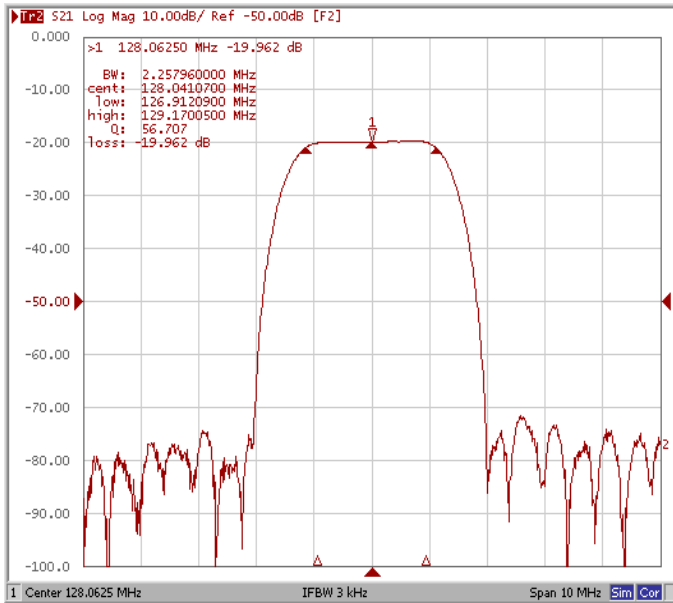
Test Fixture & Values	
Input	L1=100 nH, C1=27pF
Output	L2=82 nH, C2=43pF
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

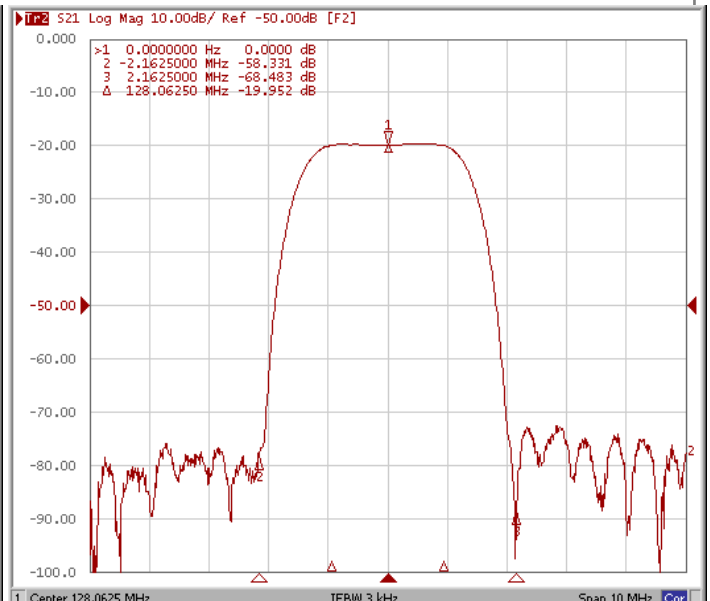
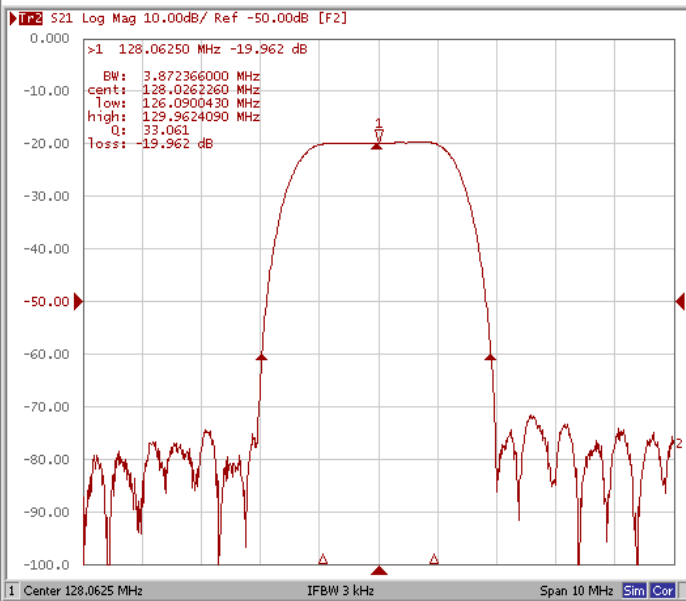
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

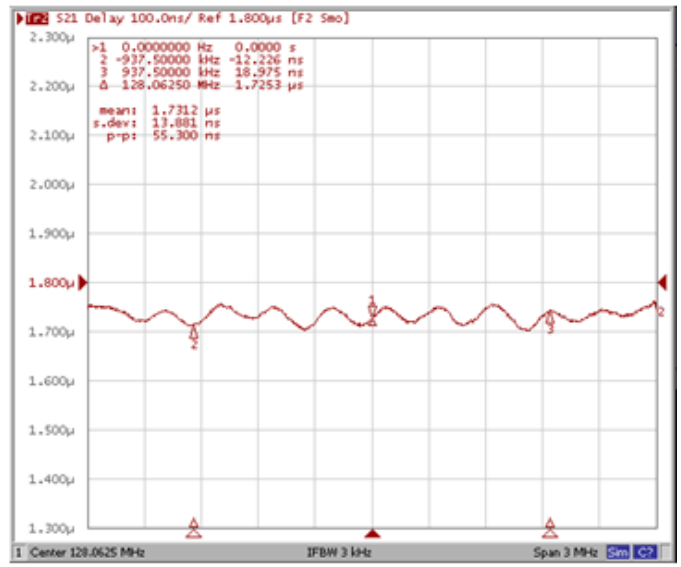
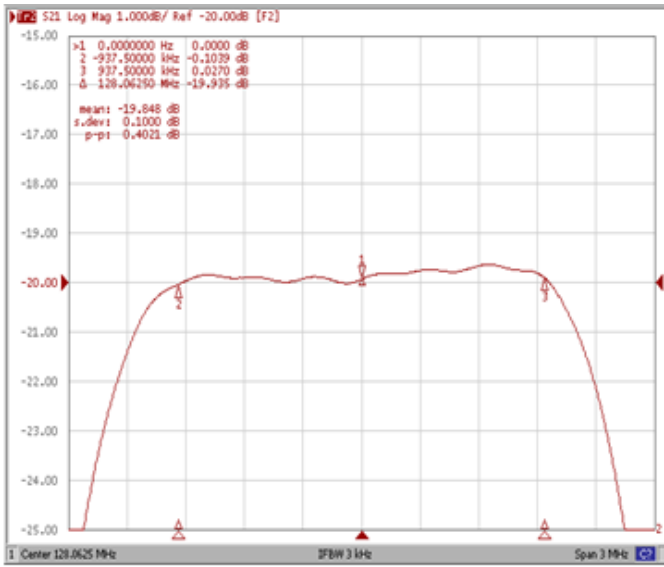
Relative Attenuation Fo±2.1625MHz



Frequency Response

Ripple Variation Fo±0.9375MHz

Group Delay Variation Fo±0.9375MHz



Smith Chart

VSWR

