

- 119.6875 MHz IF SAW Filter / 9.8 MHz Bandwidth
- Revision 0: 5. Dec. 2007

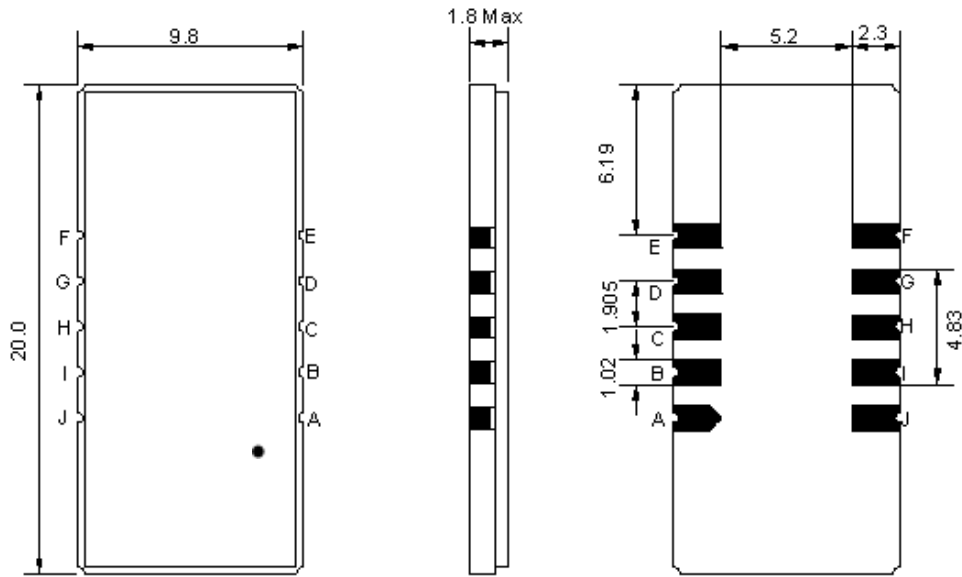
Electrical Characteristics

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	D1			
Length x Width	mm ²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	119.5675	119.6875	119.8075
Insertion Loss at Fo	dB	-	24.5	27.0
Group Delay Variation (Fo±4.6875MHz)	ns	-	35	100
Absolute Delay	us	-	3.24	-
Temperature Coefficient	ppm/°C	-	-20	-
Passband Ripple (Fo±4.6875MHz)	dB	-	0.50	1.00
Bandwidth at -1dB	MHz	9.375	9.83	-
Bandwidth at -30dB	MHz	-	11.25	-
Bandwidth at -40dB	MHz	-	11.40	12.10
Ultimate Rejection	dB	-	50	-
Relative Attenuation Fo±5.9125MHz	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.

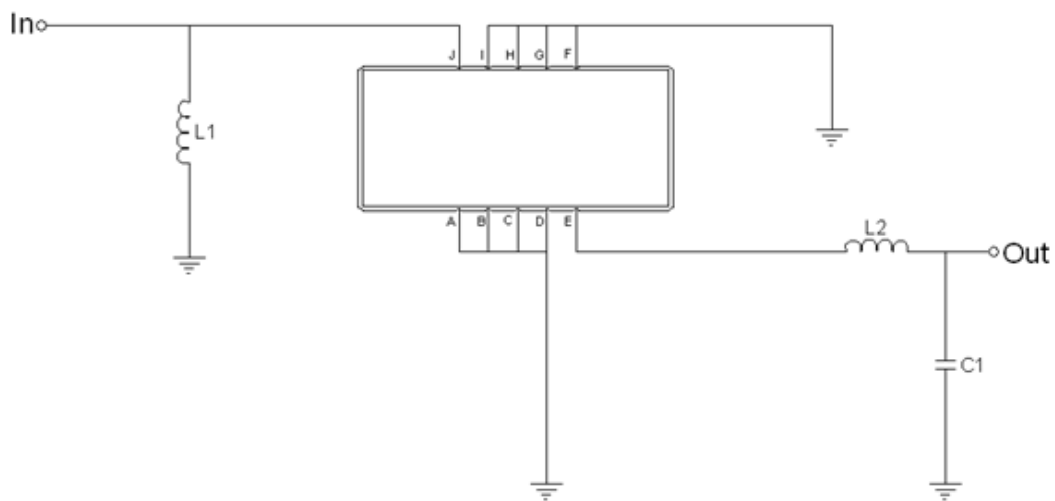
Package Dimensions



- ① TRANSKO: Brand
- ② TA11909A: 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	Ground
J	Input
E	Output

Testing Environment



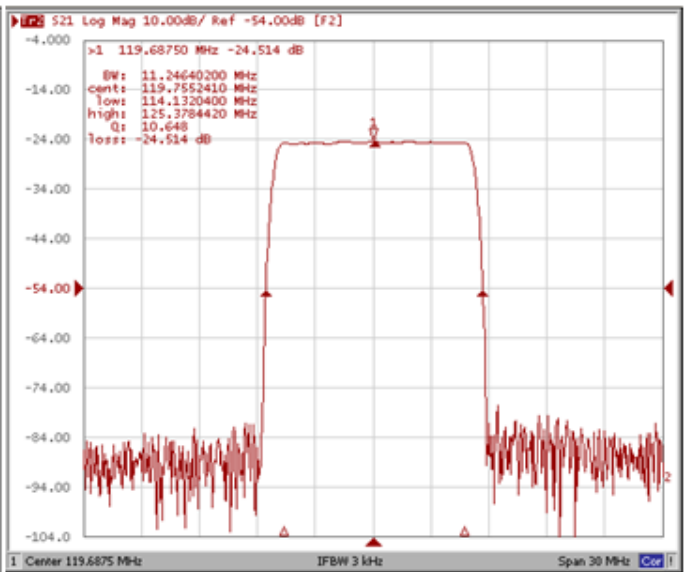
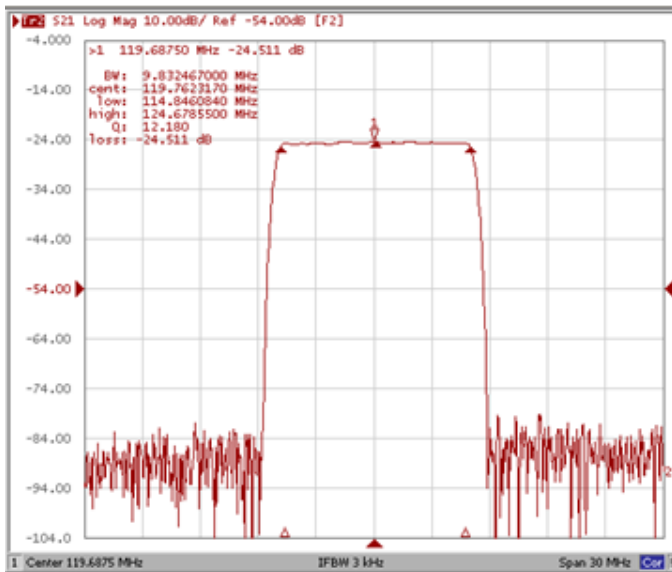
Test Fixture & Values	
Input	L1=39nH
Output	L2=47nH, C1=36pF
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

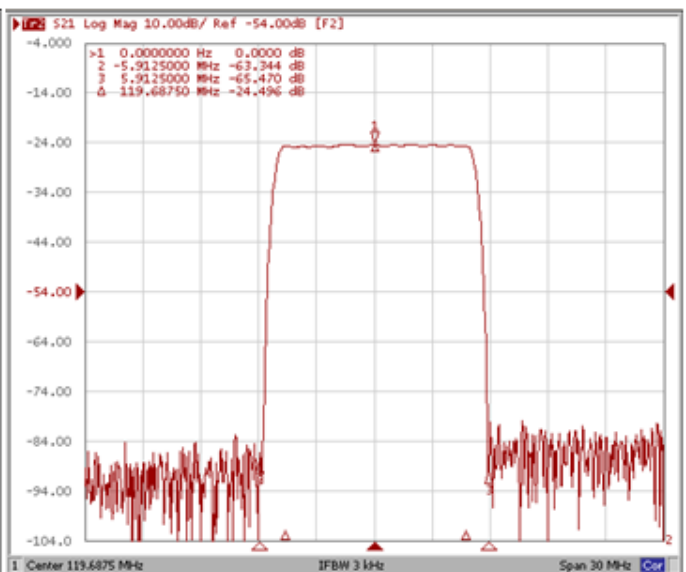
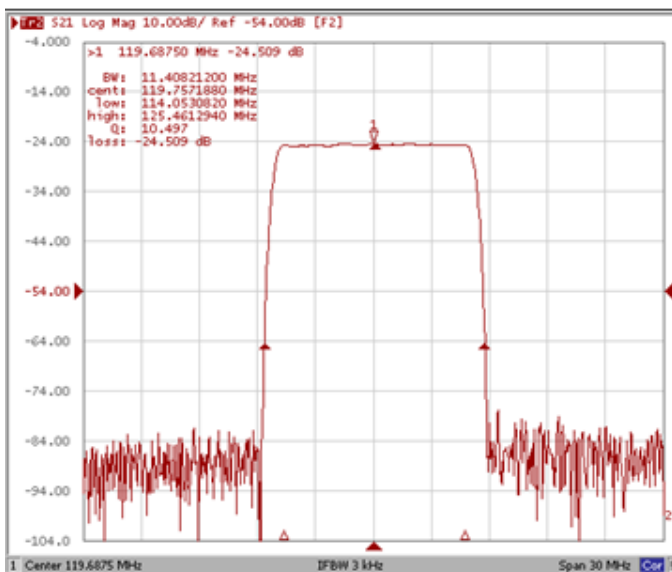
Bandwidth at -1.0 dB

Bandwidth at -30.0 dB



Bandwidth at -40.0 dB

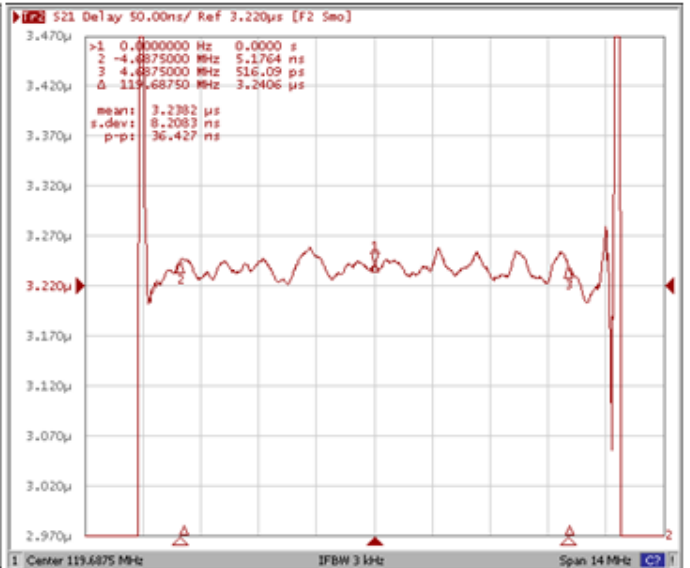
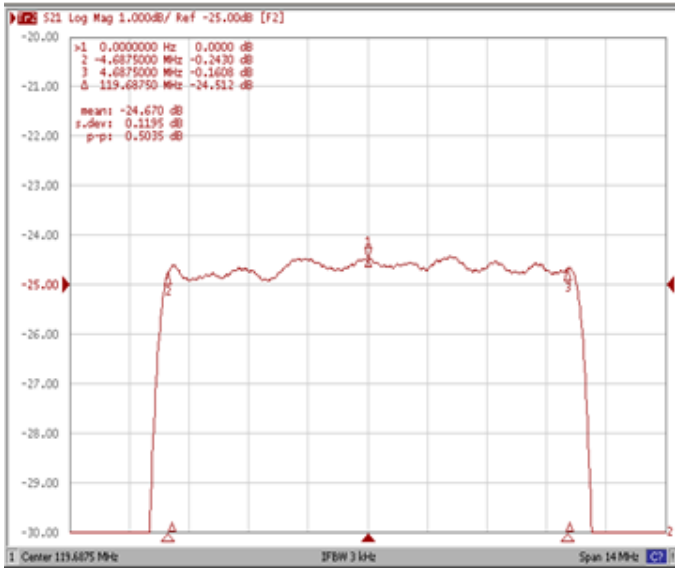
Relative Attenuation $F_{o\pm 5.9125\text{MHz}}$



Frequency Response

Ripple Variation Fo±4.6875MHz

Group Delay Variation Fo±4.6875MHz



Smith Chart

VSWR

