

- 120.0 MHz IF SAW Filter / 9.70 MHz Bandwidth
- Revision 0: 18. Nov. 2008

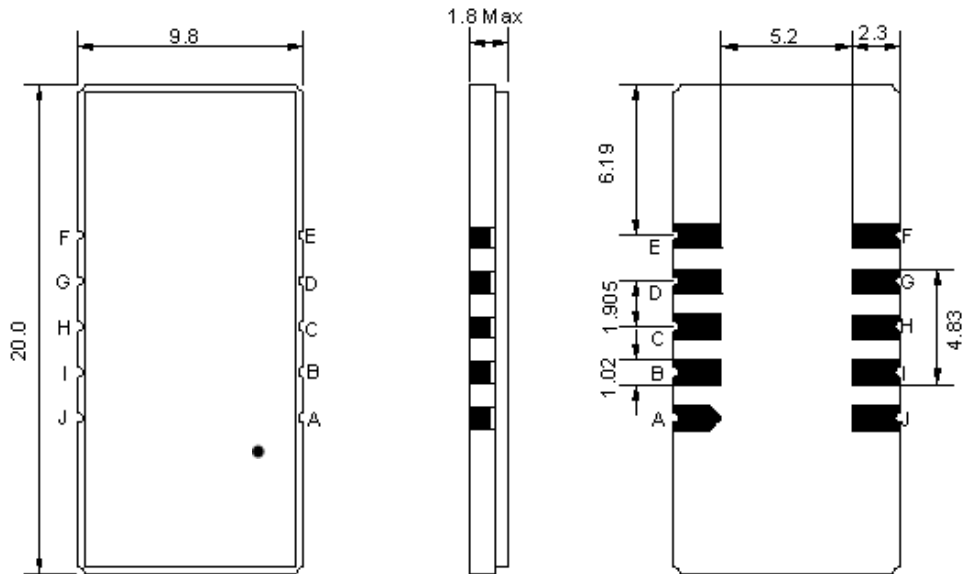
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-	25	-
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	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	-	120.0	-
Insertion Loss at Fo	dB	-	24.3	27.00
Passband Ripple (fo ±4.6 MHz)	dB _{p-p}	-	0.45	0.90
Group Delay Variation (fo ±4.6 MHz)	nsec	-	38	90
Absolute Delay at Fo	µsec	-	3.17	-
Bandwidth at -1.0 dB	MHz	-	9.70	-
Bandwidth at -55 dB	MHz	-	11.81	-
Ultimate Attenuation(110.1MHz~114MHz)	-	50	60	-
Ultimate Attenuation(126MHz~129.9MHz)	-	50	60	-
Temperature Coefficient	ppm/°C	-	-20	-

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.

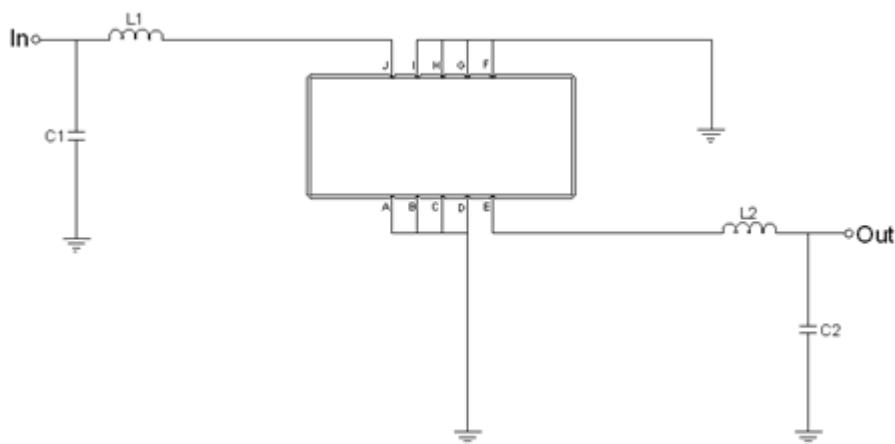
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA12009A:** 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



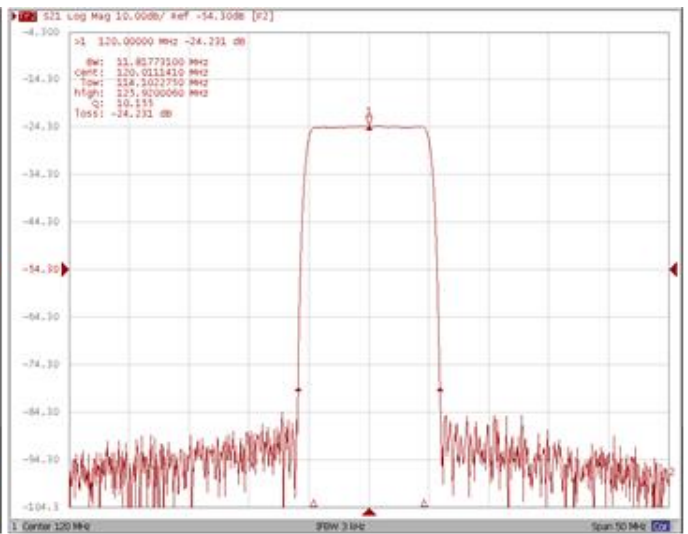
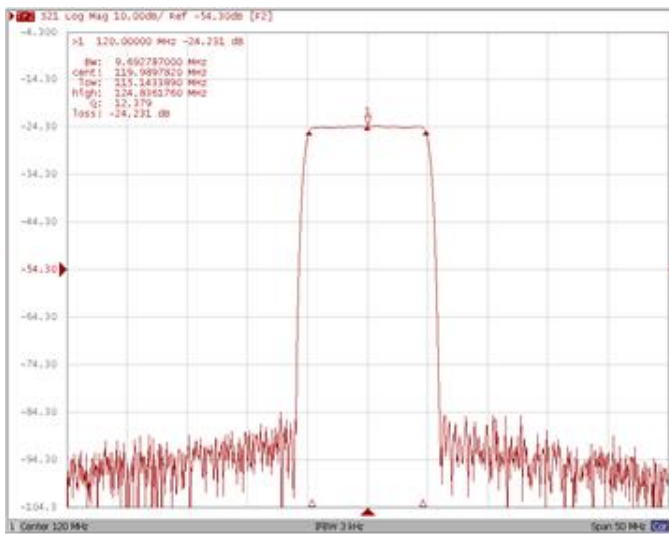
Test Fixture & Values	
Input	L1=56nH, C1=47pF
Output	L2=68nH, C2=36pF
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

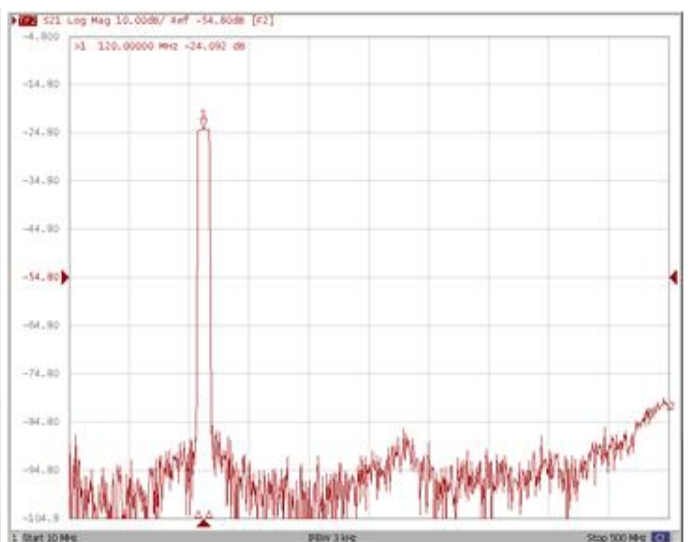
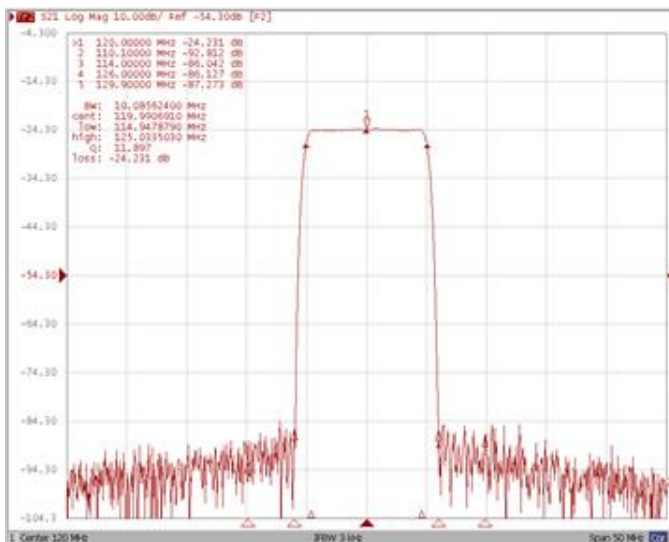
Bandwidth at -1.0 dB

Bandwidth at -55.0 dB



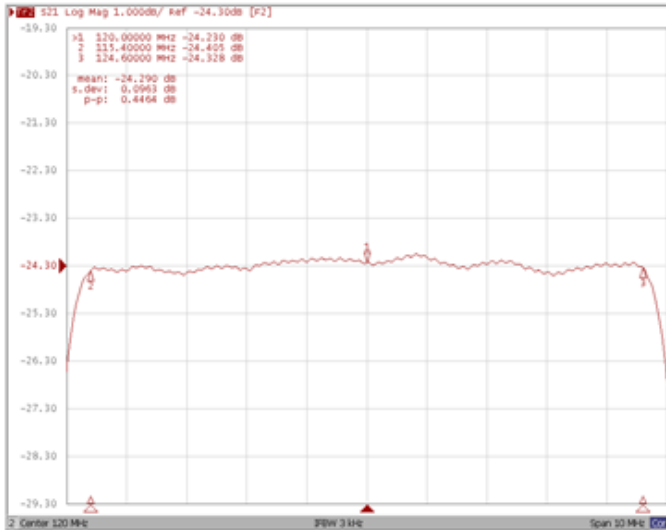
Ultimate Attenuation

Wide Band

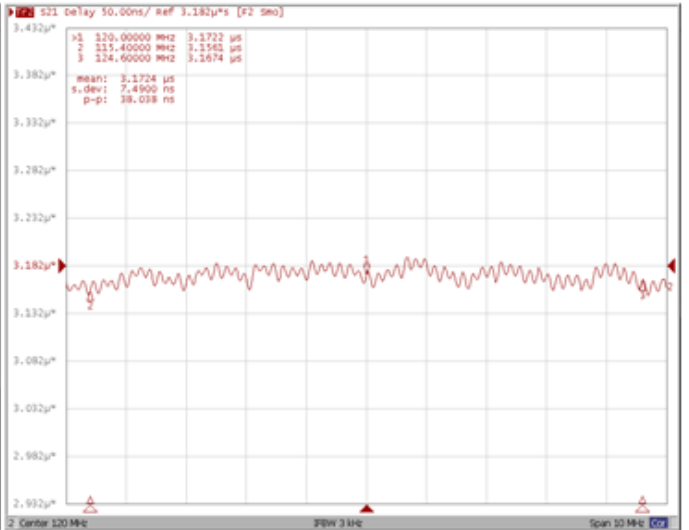


Frequency Response

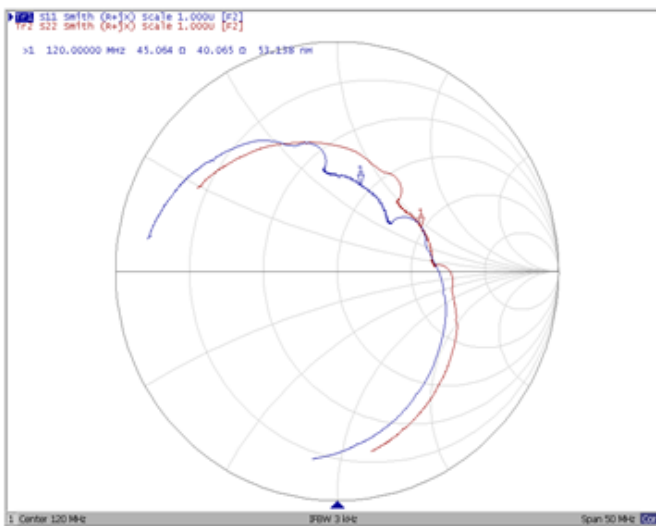
Ripple Variation Fo±4.6MHz



Group Delay Variation Fo±4.6MHz



Smith Chart



VSWR

