

- 120.0 MHz IF SAW Filter / 19.48 MHz Bandwidth
- Revision 0: 24. Dec. 2008

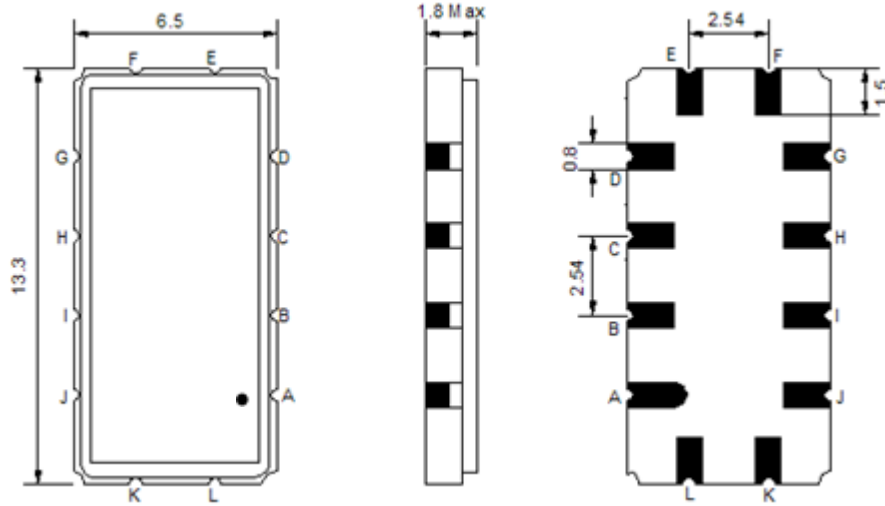
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-45	-	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	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	-	120.0	-
Insertion Loss at Fo	dB	-	21.0	24.0
Bandwidth at -1.0 dB	MHz	-	19.48	-
Bandwidth at -3.0 dB	MHz	19.80	19.90	-
Bandwidth at -40.0 dB	MHz	-	21.75	22.00
Amplitude Ripple(Fo ±9.22 MHz)	dB _{p-p}	-	0.65	1.00
Group Delay Variation (Fo ±9.22 MHz)	nsec	-	37	80
Absolute Delay at Fo	µsec	-	1.52	-
Ultimate Rejection	dB	45	50	-
Relative Attenuation:				
Center of 1FA - 3.5MHz	dB	15	35	
Center of 4FA + 3.5MHz	dB	15	32	-
Temperature Coefficient of Frequency(TCF)	ppm/°C	-	-72	-

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.

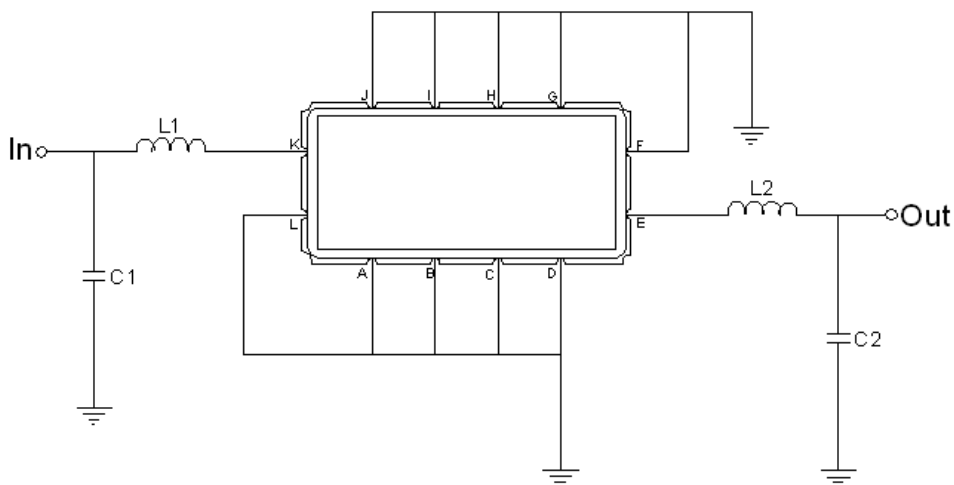
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA12019D:** 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



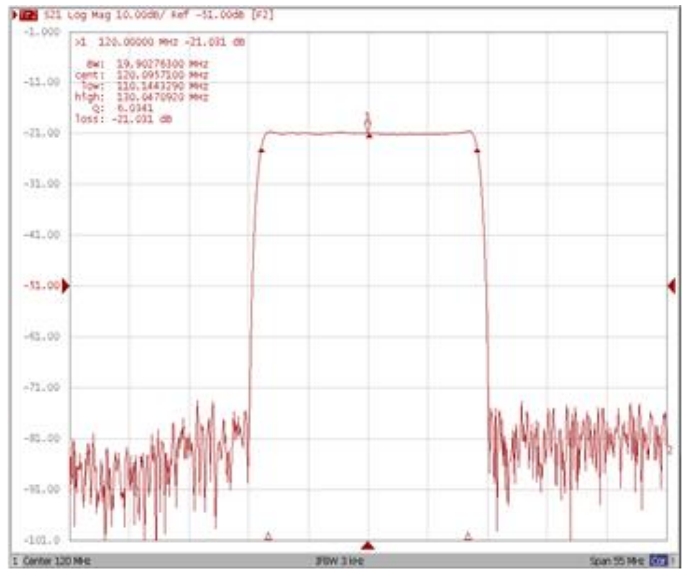
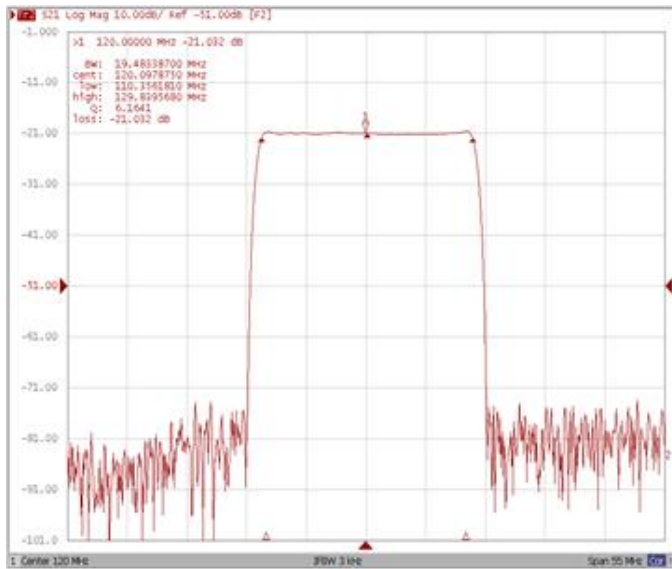
Test Fixture & Values	
Input	L1=100nH, C1=5pF
Output	L2=56nH, C2=24pF
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

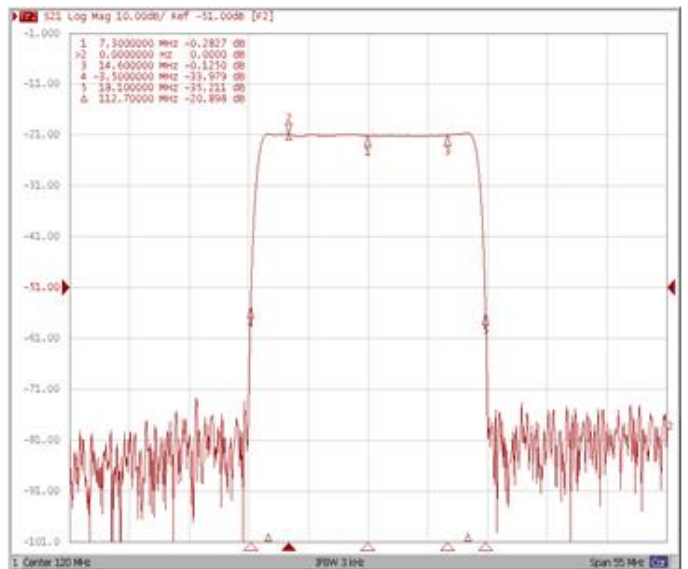
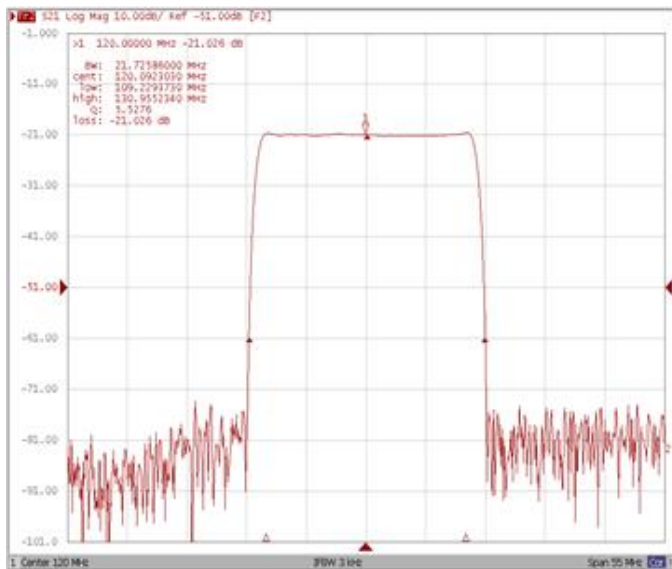
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

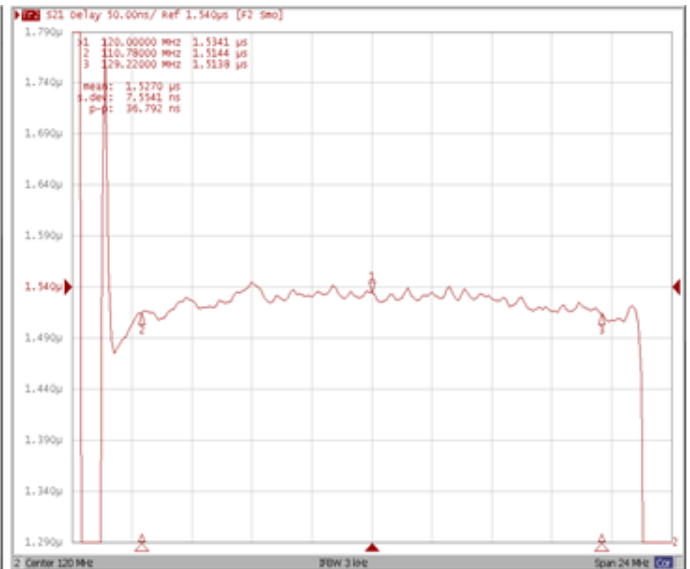
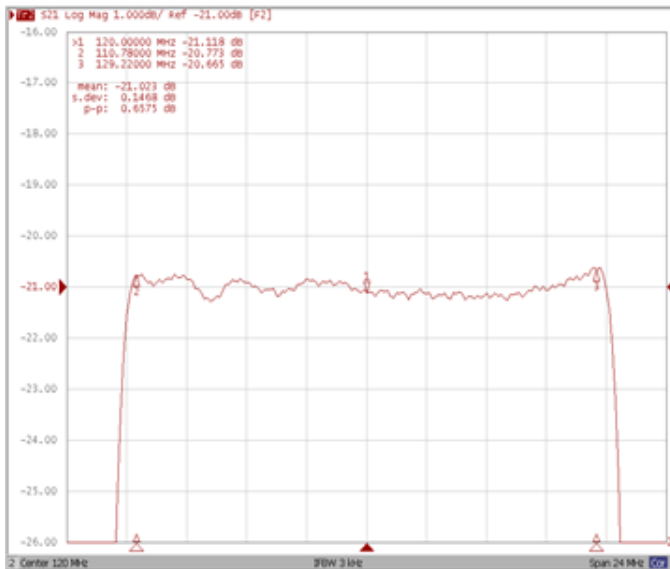
Relative Attenuation



Frequency Response

Ripple Variation

Group Delay Variation



Smith Chart

VSWR

