

- 120.3 MHz IF SAW Filter / 10.55 MHz Bandwidth
- Revision 0: 29. Sep. 2009

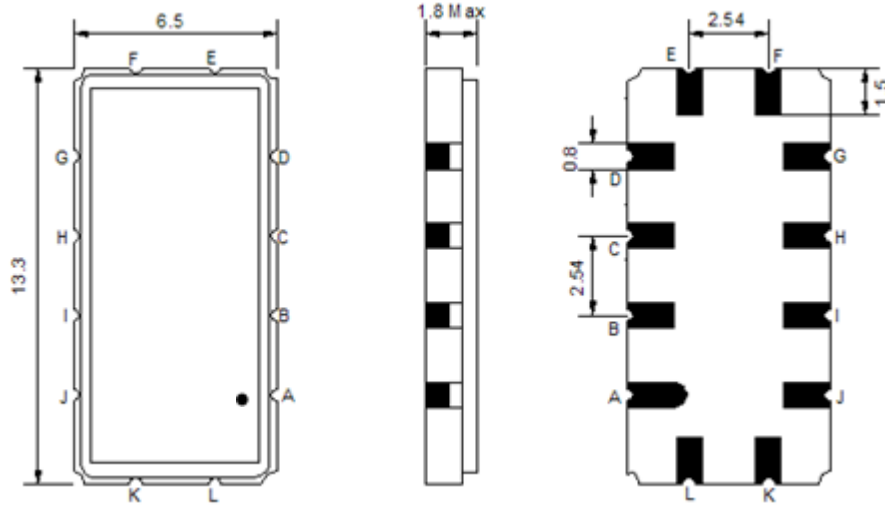
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-5	-	65
Storage Temperature Range	°C	-30	-	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	-	120.3	-
Insertion Loss at Fo	dB	-	20.5	22.0
Group Delay Variation at Fo ±5.00 MHz	ns	-	52	90
Absolute Delay at Fo	us	-	1.61	-
Amplitude Ripple at Fo ±5.00 MHz	dB	-	0.50	-
Bandwidth at -1dB	MHz	10.40	10.55	-
Bandwidth at -3dB	MHz	-	11.05	-
Bandwidth at -25dB	MHz	-	12.55	12.70
Bandwidth at -40dB	MHz	-	12.90	13.30
Relative Attenuation				
Lower Sidelobe	dB	48	52	-
Upper Sidelobe	dB	48	52	-
Temperature Coefficient	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.

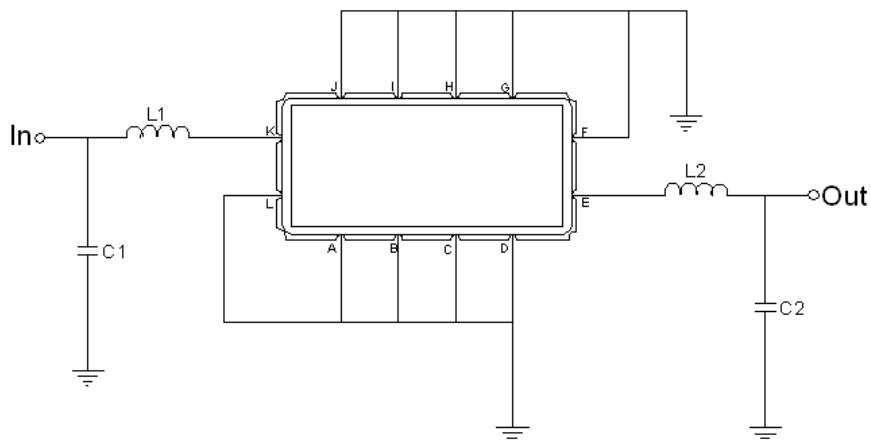
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA12010A:** 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



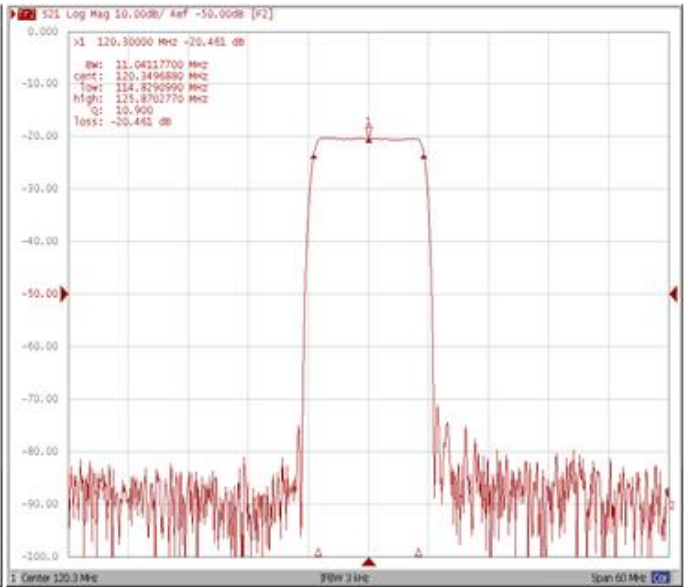
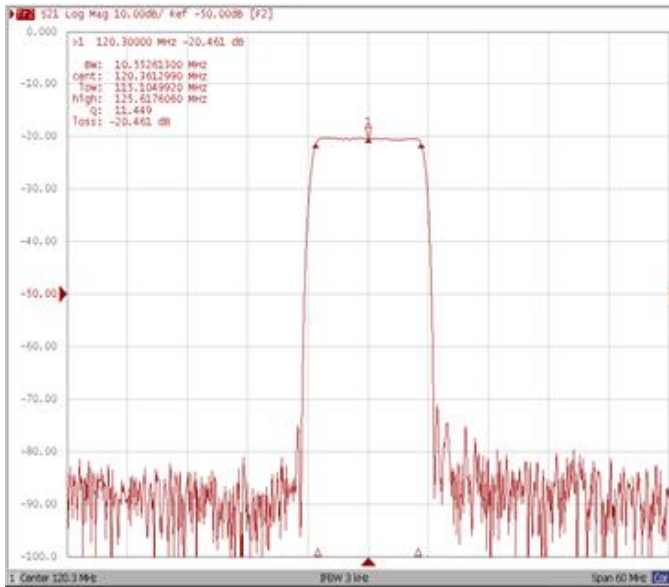
Test Fixture & Values	
Input	L1 = 22 nH , C1 = 8 pF
Output	L2 = 22 nH , C2 = 8 pF
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

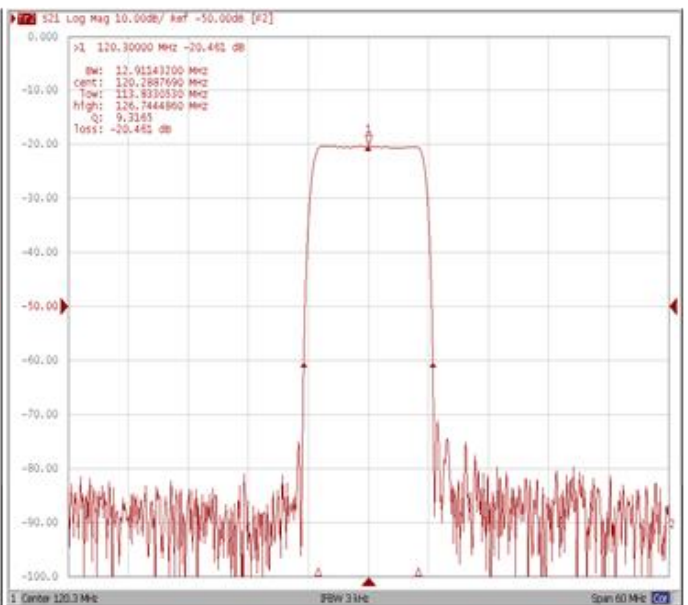
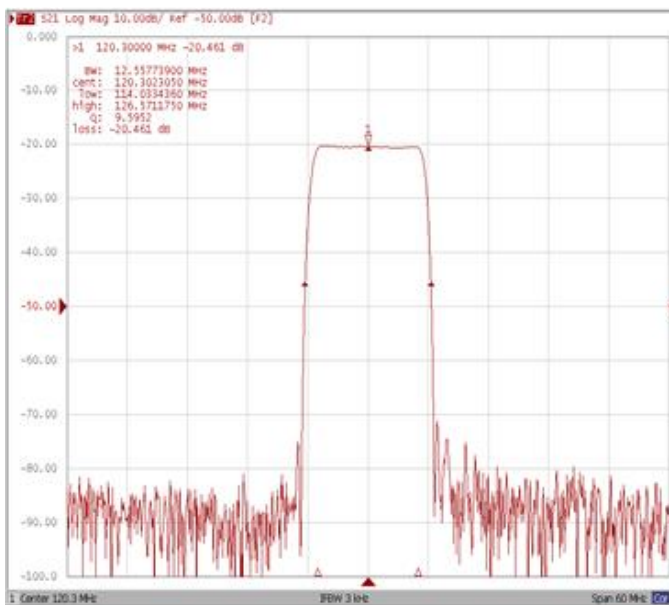
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



Bandwidth at -25.0 dB

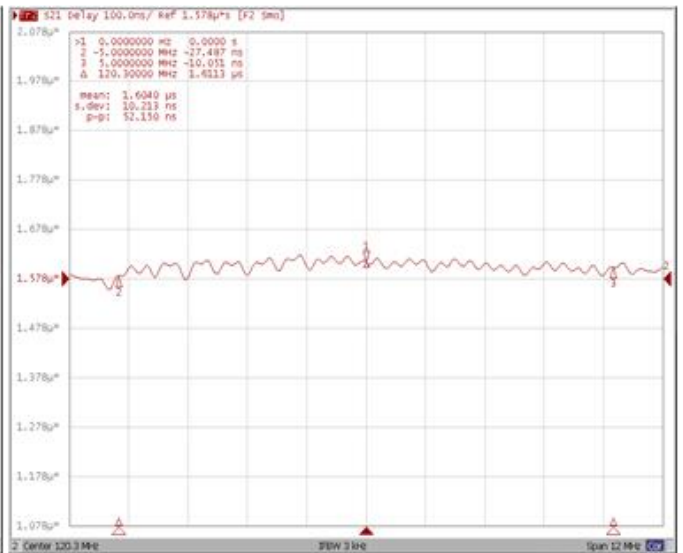
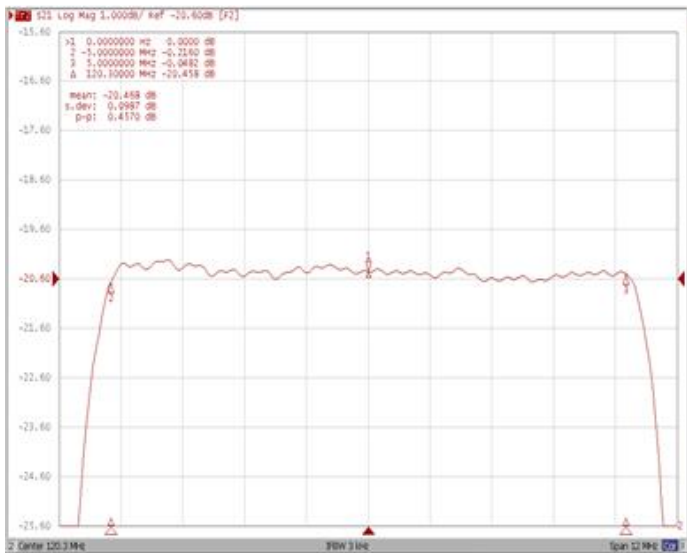
Bandwidth at -40.0 dB



Frequency Response

Ripple Variation Fo ±5.00 MHz

Group Delay Variation Fo ±5.00 MHz



Smith Chart

VSWR

