

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating 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

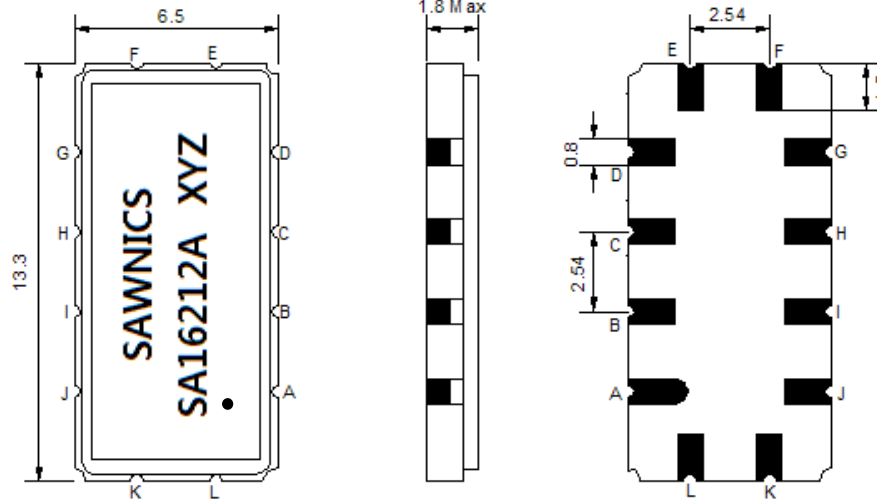
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	162.3	-
Insertion Loss at Fo	dB	-	25.5	27.0
Group Delay Variation at Fo ±6.00 MHz	ns	-	20	50
Absolute Delay at Fo	us	-	2.16	-
Amplitude Ripple at Fo ±6.00 MHz	dB	-	0.50	-
Bandwidth at -1dB	MHz	12.50	12.65	-
Bandwidth at -3dB	MHz	-	13.15	-
Bandwidth at -25dB	MHz	-	14.80	15.00
Bandwidth at -40dB	MHz	-	15.25	15.60
Relative Attenuation				
Lower Sidelobe	dB	50	55	-
Upper Sidelobe	dB	50	55	-
Temperature Coefficient	ppm/°C	-	-23	-

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.

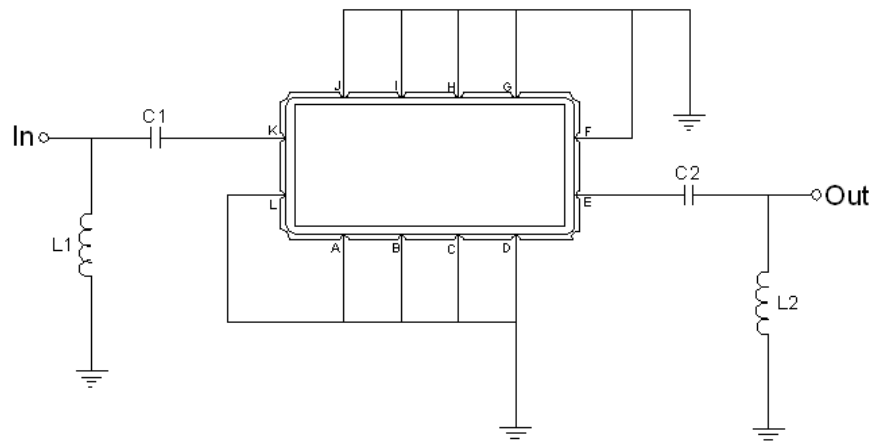
Package Dimensions



- ① SAWNICs: Brand
- ② SA16212A: 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

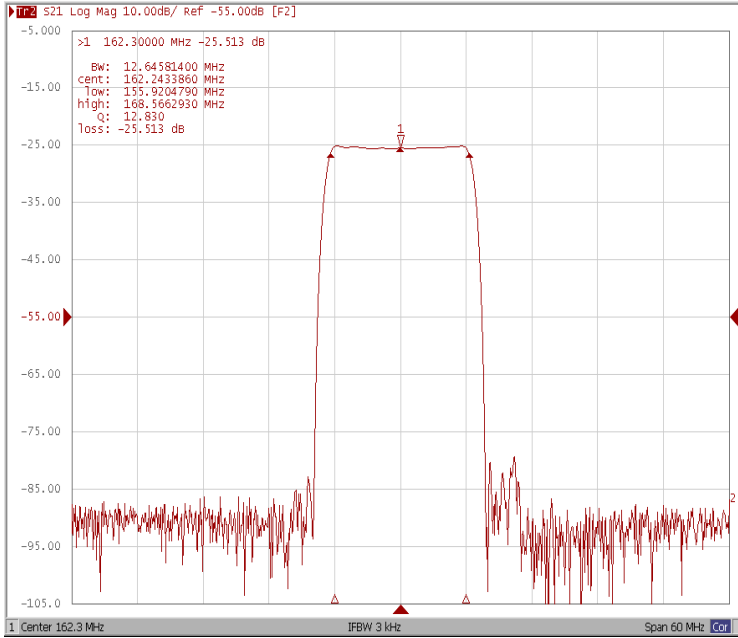
Testing Environment



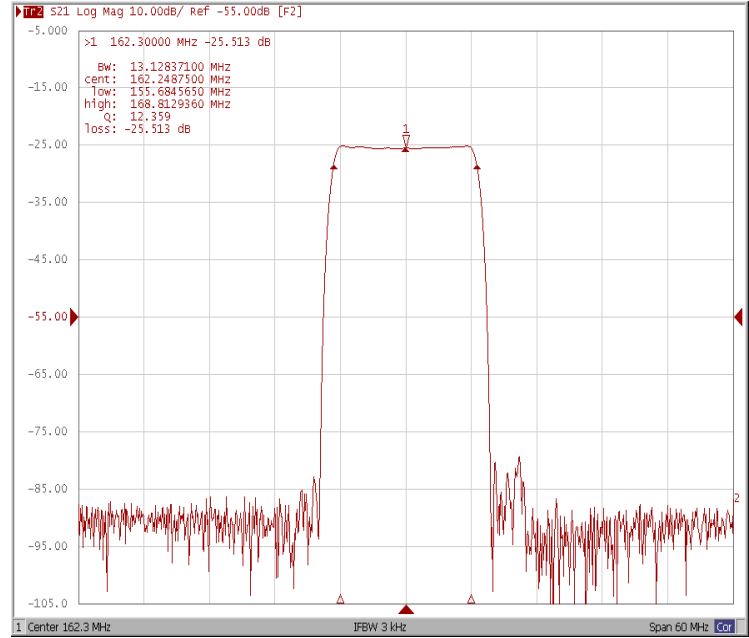
Test Fixture & Values	
Input	L1 = 39 nH , C1 = 330 pF
Output	L2 = 39 nH , C2 = 330 pF
Source/Load Impedance	50 Ω

Frequency Response

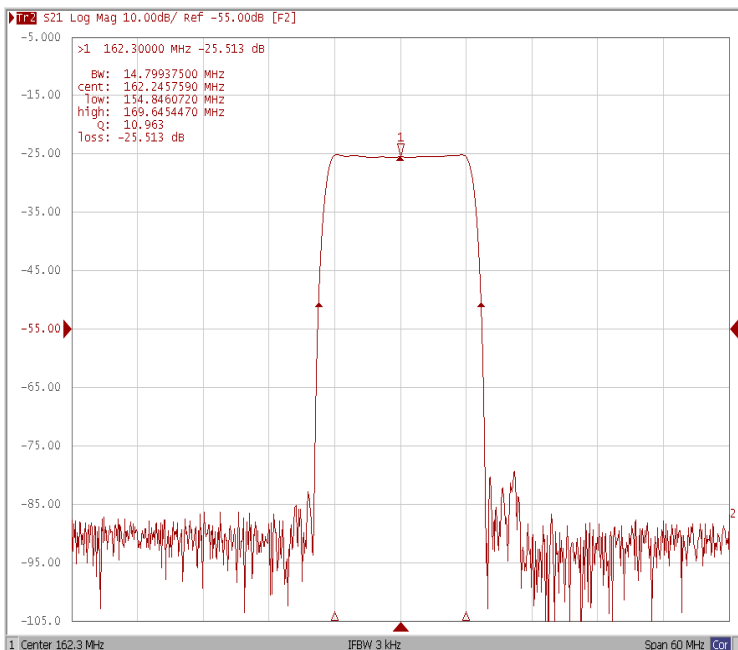
Bandwidth at -1.0 dB



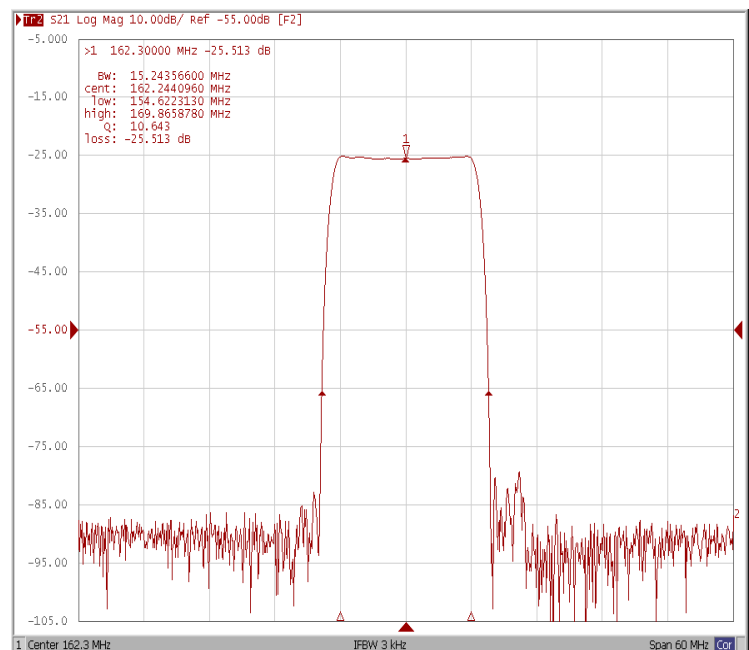
Bandwidth at -3.0 dB



Bandwidth at -25.0 dB



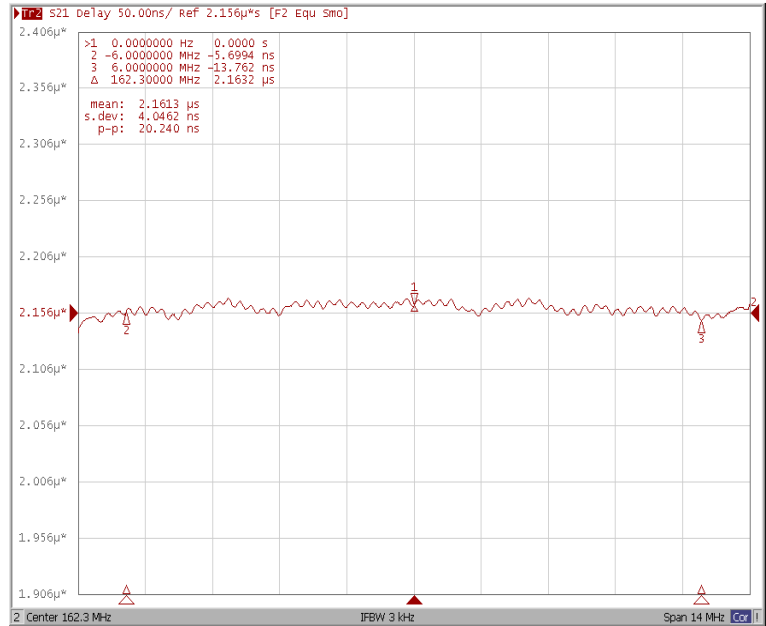
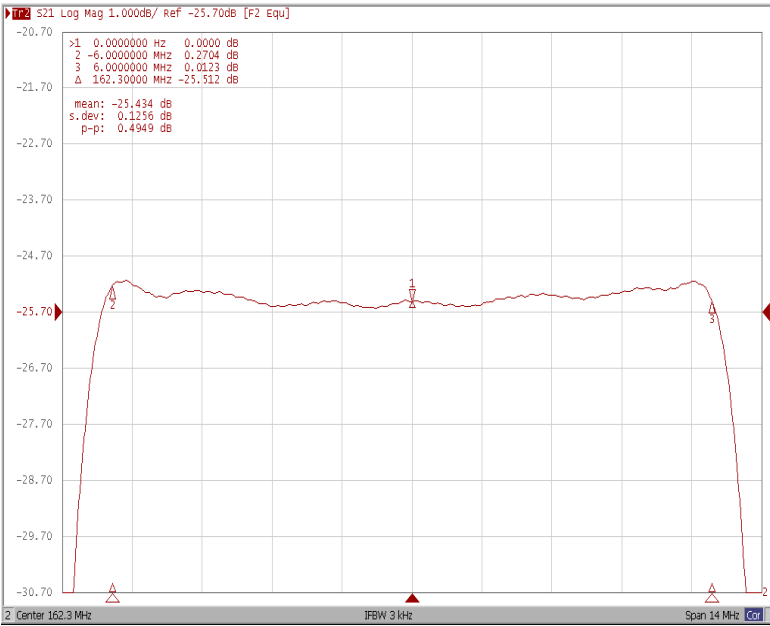
Bandwidth at -40.0 dB



Frequency Response

Ripple Variation at Fo ±6.00 MHz

Group Delay Variation at Fo ±6.00 MHz



Smith Chart

VSWR

