❒ Electrical Characteristics

Maximum Ratings

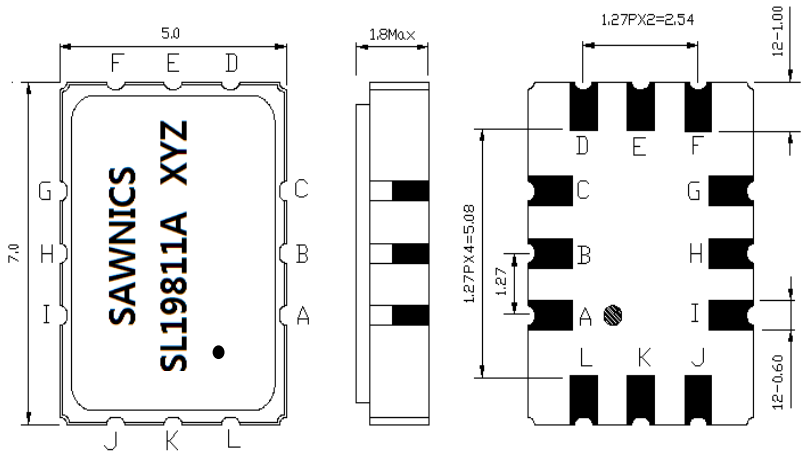
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-40	-	85
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (Balanced)(1)	Ω	-	50	-
Load Impedance (Balanced)(1)	Ω	-	50	-
Package type & size	S1			
Length x Width	mm^2	-	7.0 x 5.0	-
Height	mm	-	-	1.8

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	198.50	-
Insertion Loss at Fo	dB	-	12.00	15.00
Amplitude Ripple at Fo ± 4.50MHz	dB_{p-p}	-	0.35	1.0
Group Delay Variation at Fo ± 4.50MHz	ns	-	25	60
Absolute Delay at Fo	µs	-	0.64	-
Temperature Coefficient	ppm/°C	-	-20	-
Bandwidth at –1.0 dB	MHz	10.70	10.90	-
Bandwidth at –3.0 dB	MHz	-	12.25	-
Bandwidth at –40.0 dB	MHz	-	16.85	17.10
Ultimate Rejection	dB	-	45	-

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.

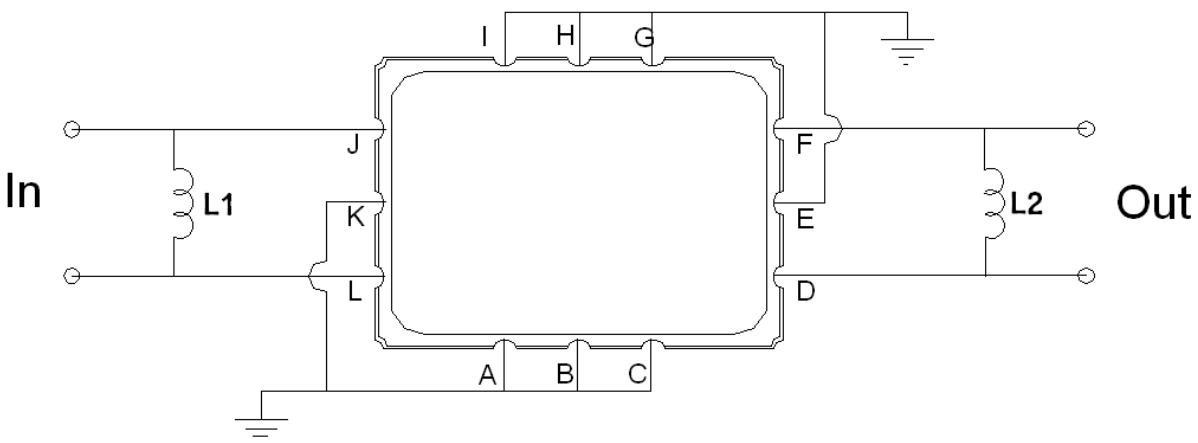
❒ Package Dimensions



① SAWNICS: Brand
② SL19811A: Model Name
③ X : Date Code (Year)
④ Y : Date Code (Month)
⑤ Z : Date Code (Date)
● : Index Dot

Pin Description	
A,B,C,E,F,G,H,I,K,L	Ground
J	Input +
L	Input -
D	Output +
F	Output -

❒ Testing Environment

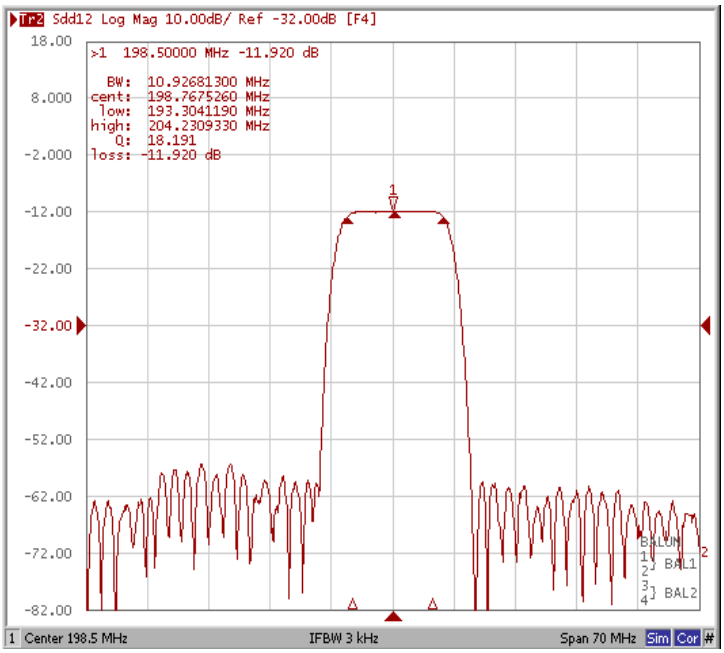


Test Fixture & Values	
Input	L1=22 nH,
Output	L2=33 nH,
Source/Load Impedance	50 Ω

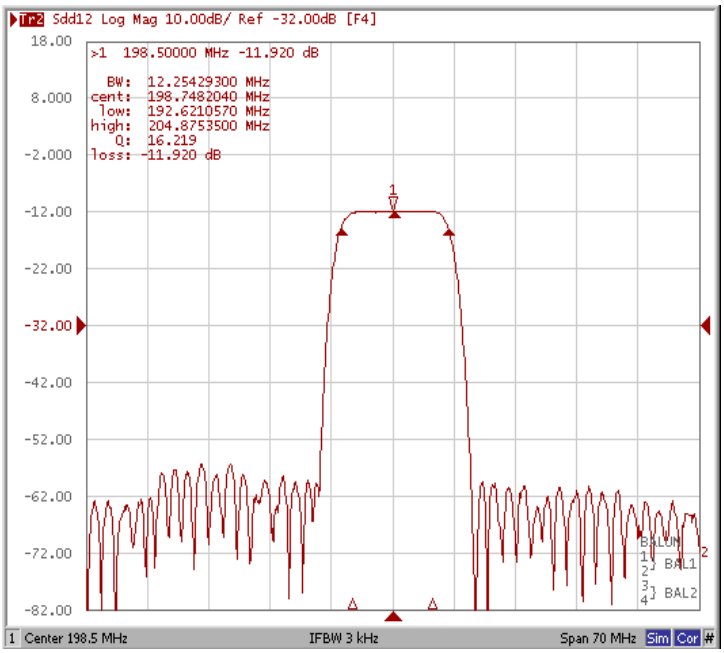
❒ Frequency Characteristics

Frequency Response

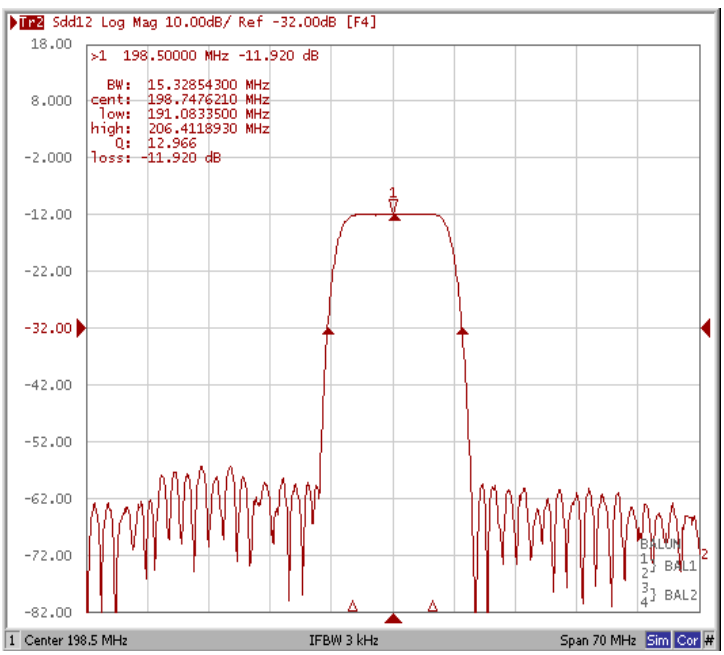
Bandwidth at –1.0 dB



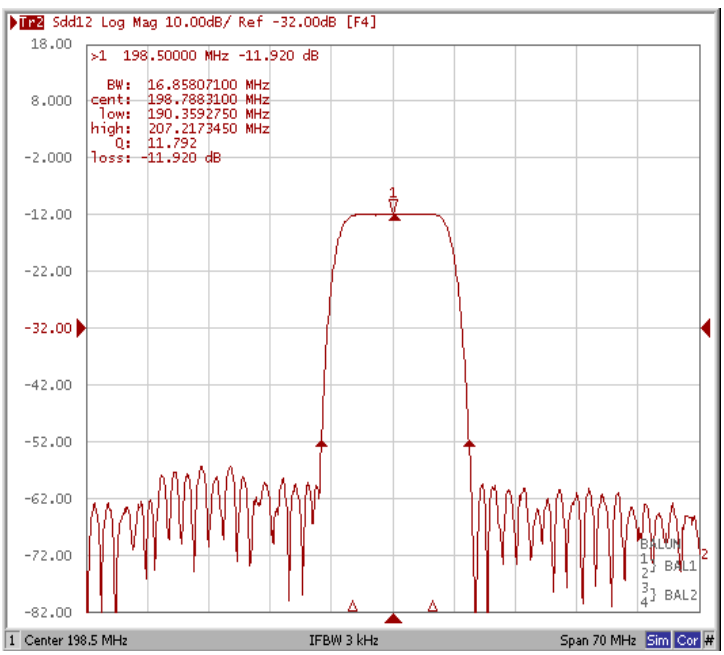
Bandwidth at –3.0 dB



Bandwidth at –20.0 dB



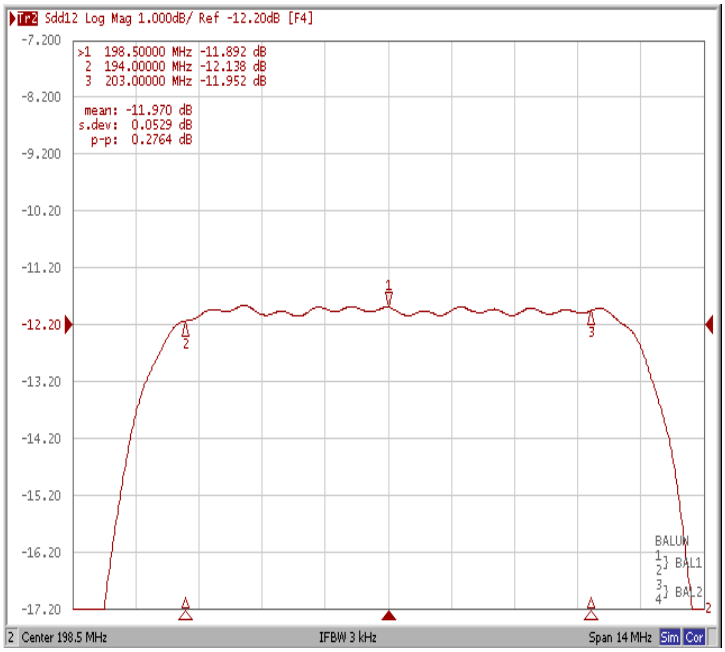
Bandwidth at –40.0 dB



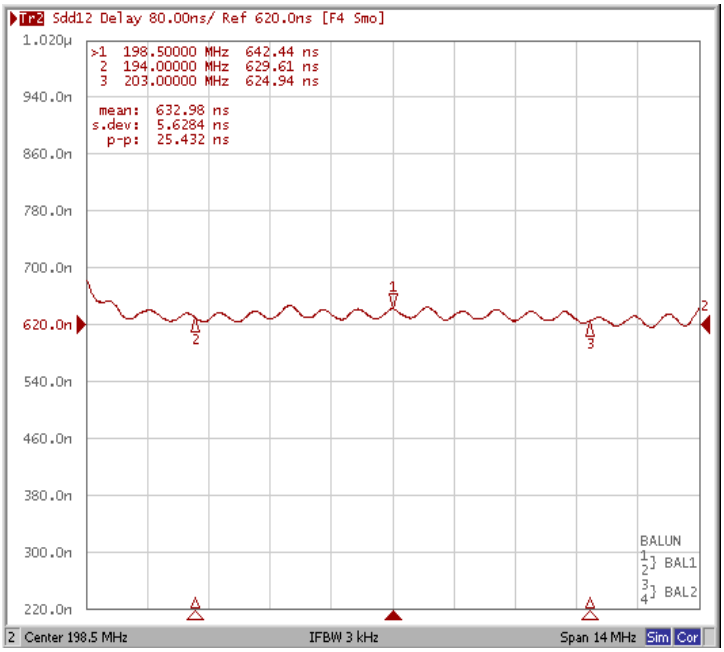
❒ Frequency Characteristics

Frequency Response

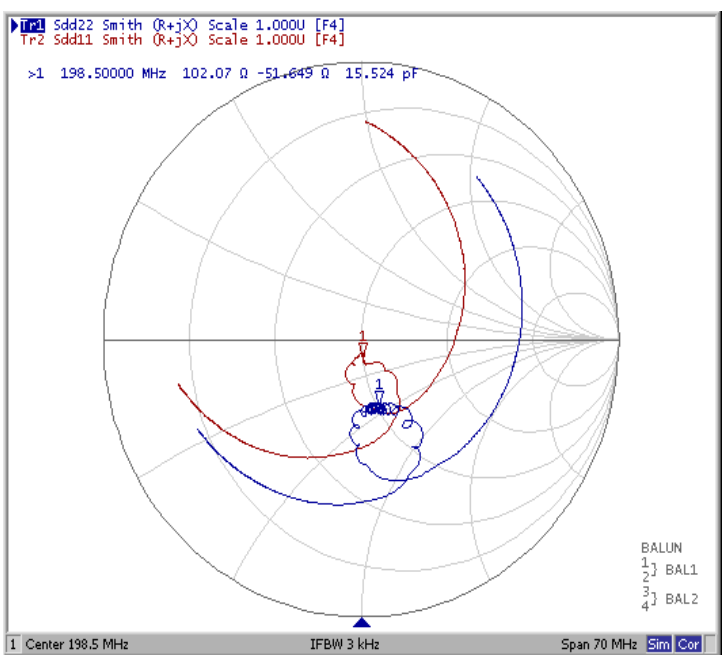
Ripple Variation at Fo ±4.50MHz



Group Delay Variation at Fo ±4.50MHz



Smith Chart



VSWR