

□ Electrical Characteristics

Maximum Ratings

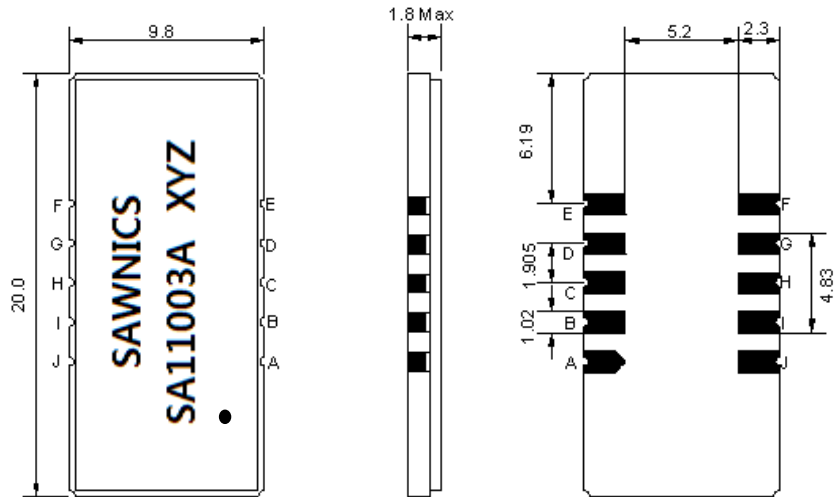
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	D1			
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	110.33	110.43	110.53
Insertion Loss at Fo	dB	-	20.00	21.00
Group Delay Variation	ns	-	90	200
Absolute Delay at Fo	us	-	1.64	-
Passband Ripple Variation	dB	-	0.40	0.95
Bandwidth at -1dB	MHz	-	3.90	-
Bandwidth at -3dB	MHz	4.10	4.25	-
Bandwidth at -50dB	MHz	-	5.78	6.00
Ultimate Rejection	dB	50	53	-
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.

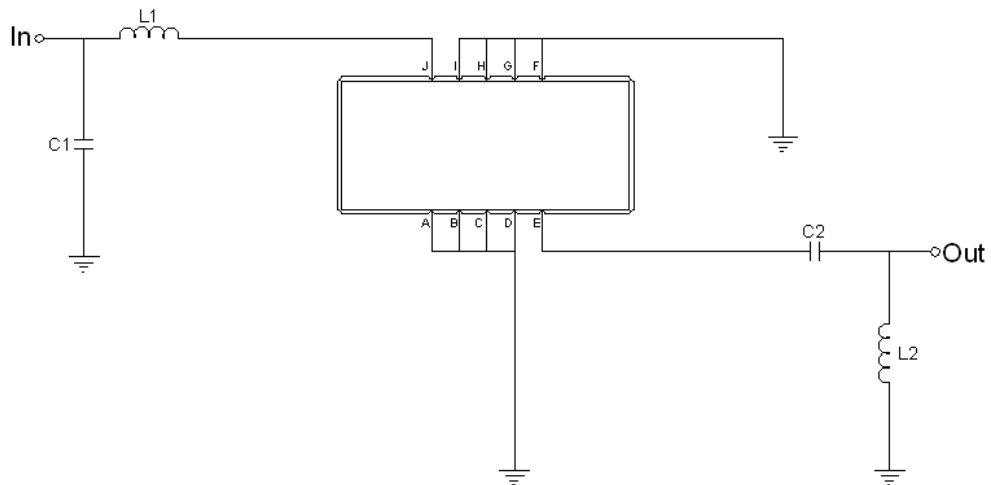
Package Dimensions



- ① SAWNICS: Brand
- ② SA11003A: 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



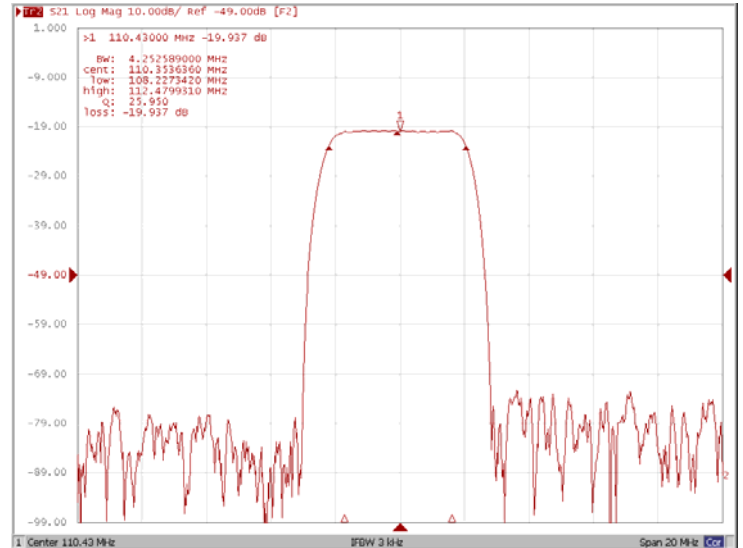
Test Fixture & Values	
Input	L1=18nH, C1=110pF
Output	L2=47nH, C2=110pF
Source/Load Impedance	50 Ω

Frequency Response

Bandwidth at -1.0 dB



Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

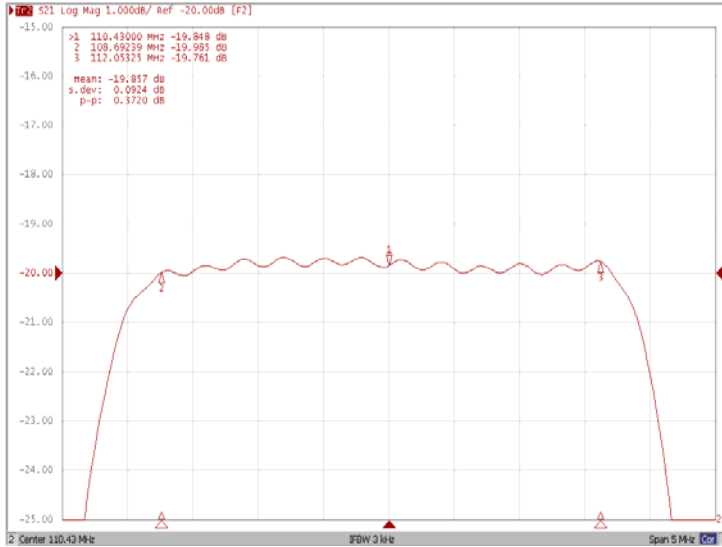


Bandwidth at -50.0 dB

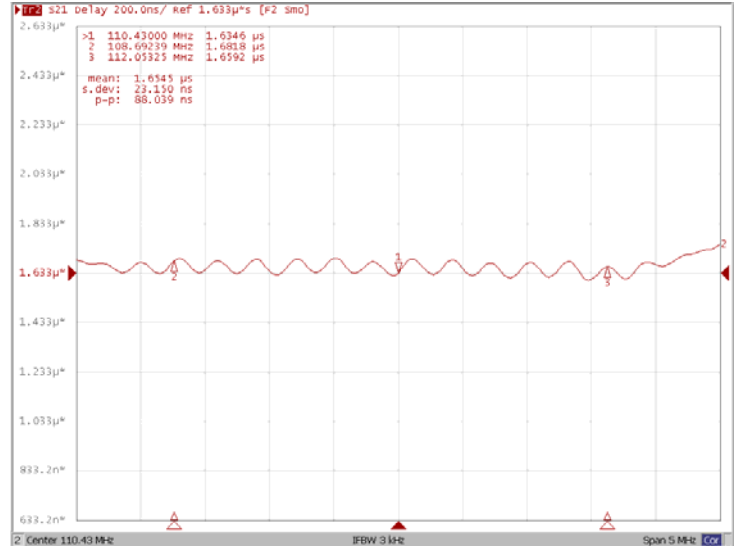


Frequency Response

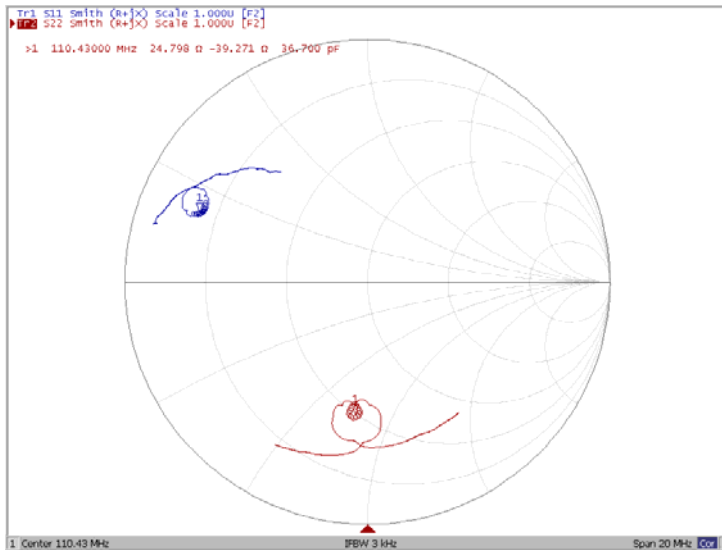
Ripple Variation



Group Delay Variation



Smith Chart



VSWR

