❒ Electrical Characteristics

Maximum Ratings

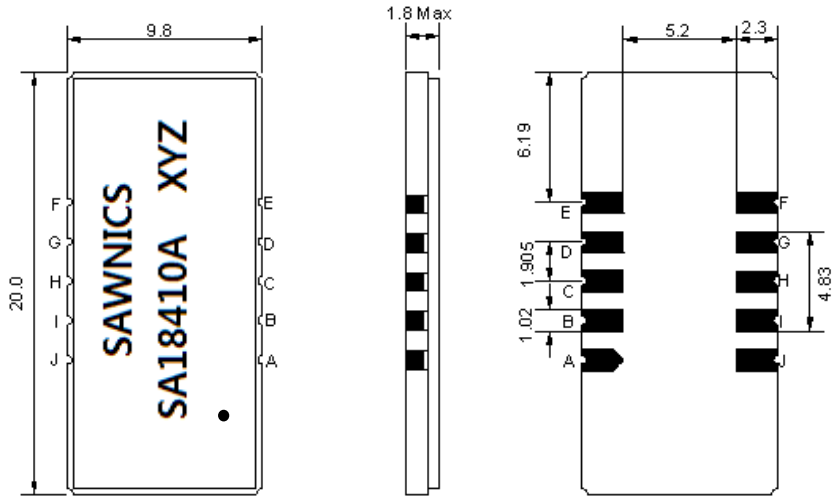
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	0		70
Storage Temperature Range	°C	-45	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size			D1	
Length x Width	mm²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	184.0	-
Insertion Loss at Fo	dB	-	27.0	28.5
Group Delay Variation at Fo ±5.25MHz	nsec	-	35	80
Absolute Delay at Fo	usec	-	2.59	-
Passband Ripple Variation at Fo ±5.25MHz	dB	-	0.55	1.0
Bandwidth at -1dB	MHz	10.00	10.82	-
Bandwidth at -3dB	MHz	-	11.20	-
Bandwidth at -40dB	MHz	-	12.65	12.90
Ultimate Rejection	dB	45	50	-
Relative Attenuation Fo±6.5MHz	dB	45	55	-
Temperature Coefficient	ppm/°C	-	-18	-

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.

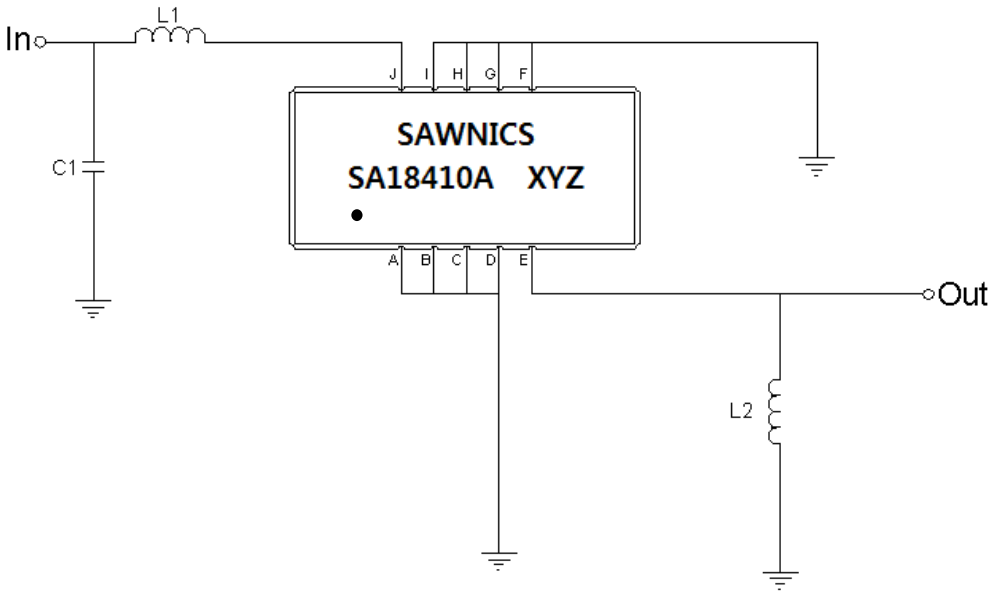
❒ Package Dimensions



① SAWNICS: Brand
② SA18410A: 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

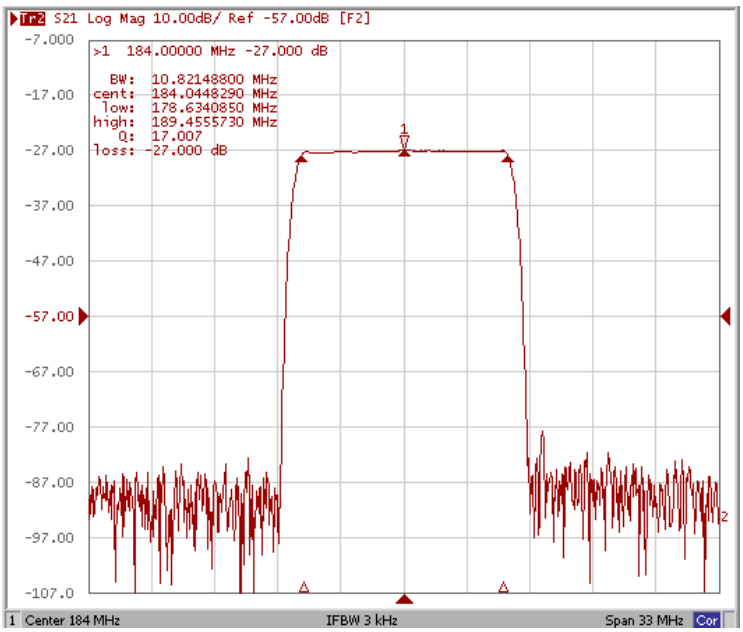


Test Fixture & Values	
Input	L1 = 27 nH , C1 = 24 pF
Output	L2 = 22nH
Source/Load Impedance	50 Ω

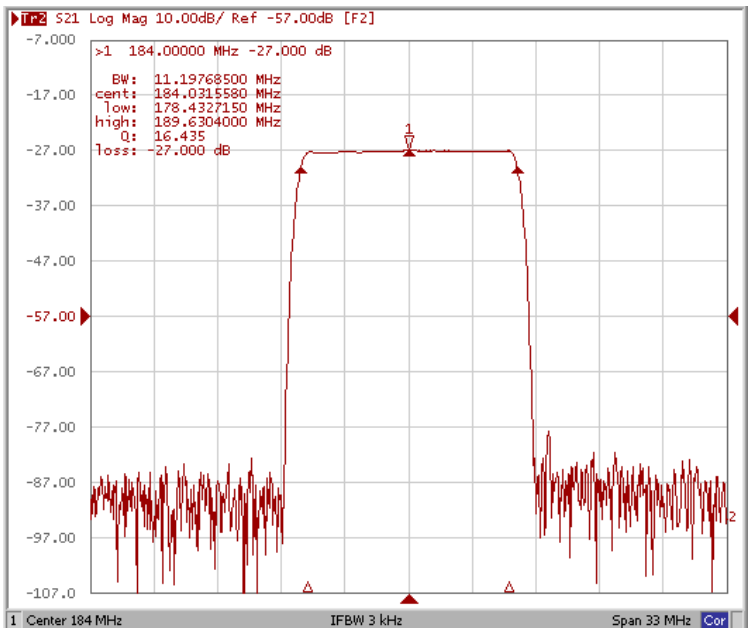
❒ Frequency Characteristics

Frequency Response

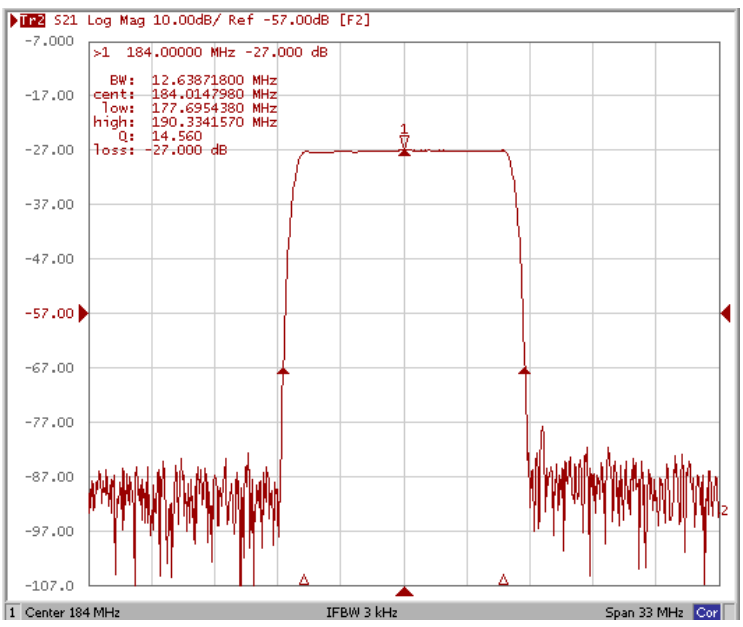
Bandwidth at –1.0 dB



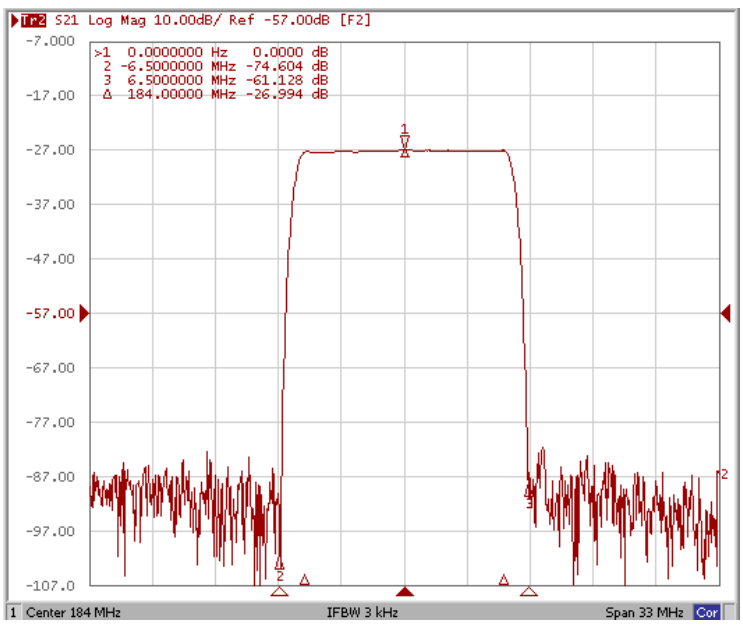
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB



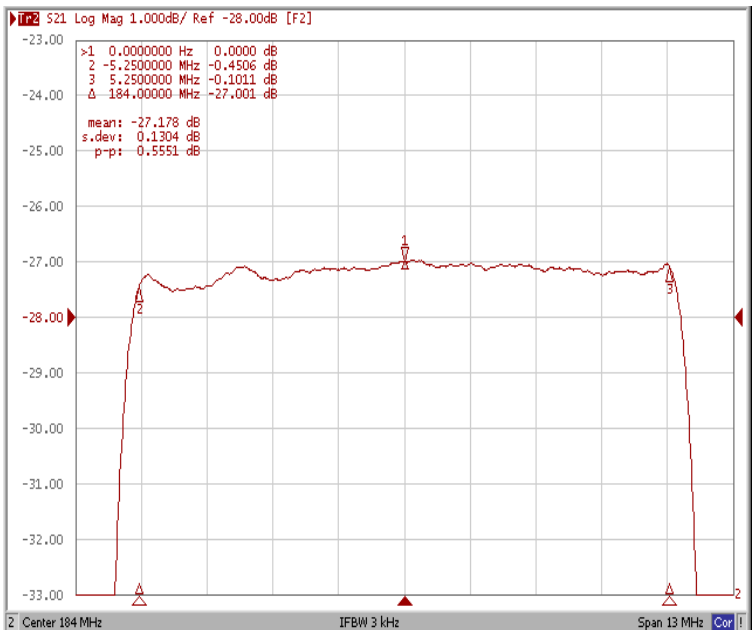
Relative Attenuation Fo±6.5MHz



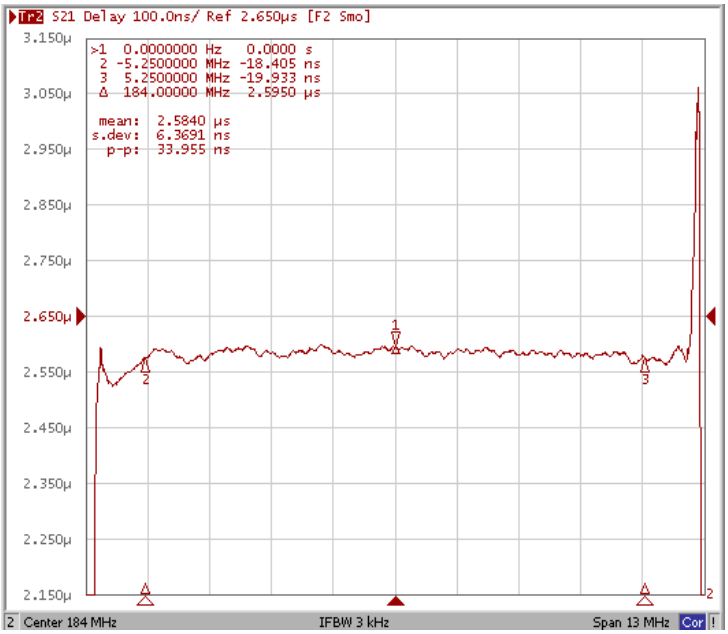
❒ Frequency Characteristics

Frequency Response

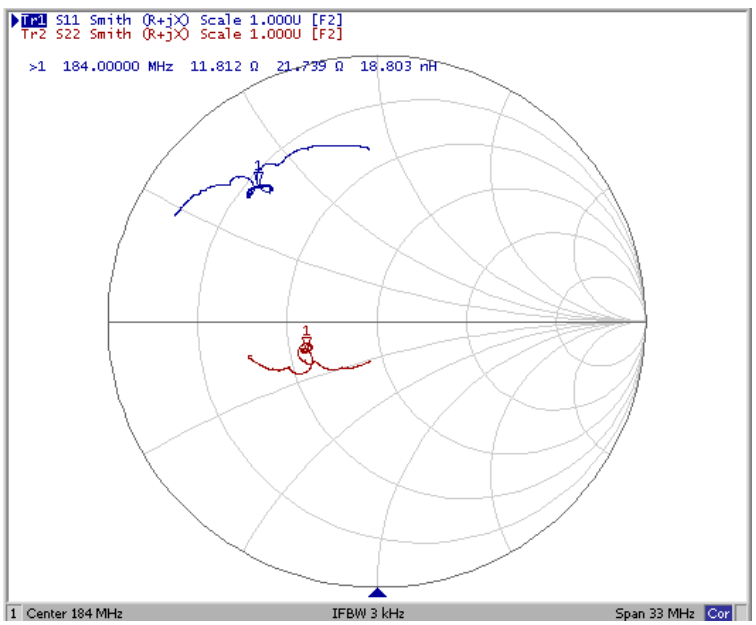
Ripple Variation Fo±5.25MHz



Group Delay Variation Fo±5.25MHz



Smith Chart



SWR