

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-10	-	70
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	D1			
Length x Width	mm <sup>2</sup>	-	20.0 x 9.8	-
Height	mm	-	-	1.8

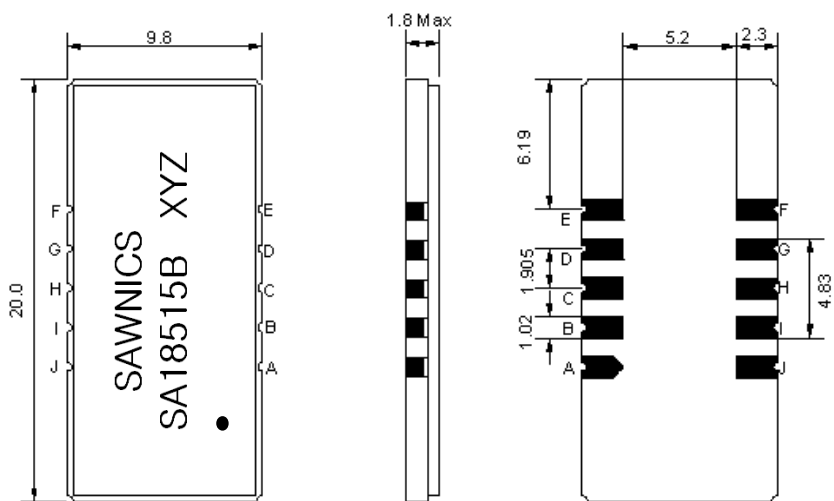
**Electrical Specification**

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	185.0	-
Insertion Loss at Fo	dB	-	25.50	27.00
Group Delay Variation (Fo±7.5MHz)	nsec	-	30	60
Absolute Delay	usec	-	2.54	2.60
Passband Ripple (Fo±7.5MHz)	dB	-	0.55	1.00
Bandwidth at -1dB	MHz	15.35	15.50	-
Bandwidth at -3dB	MHz	-	15.85	-
Bandwidth at -40dB	MHz	-	17.37	17.55
Bandwidth at -50dB	MHz	-	17.50	-
Ultimate Rejection	dB	50	55	-
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.

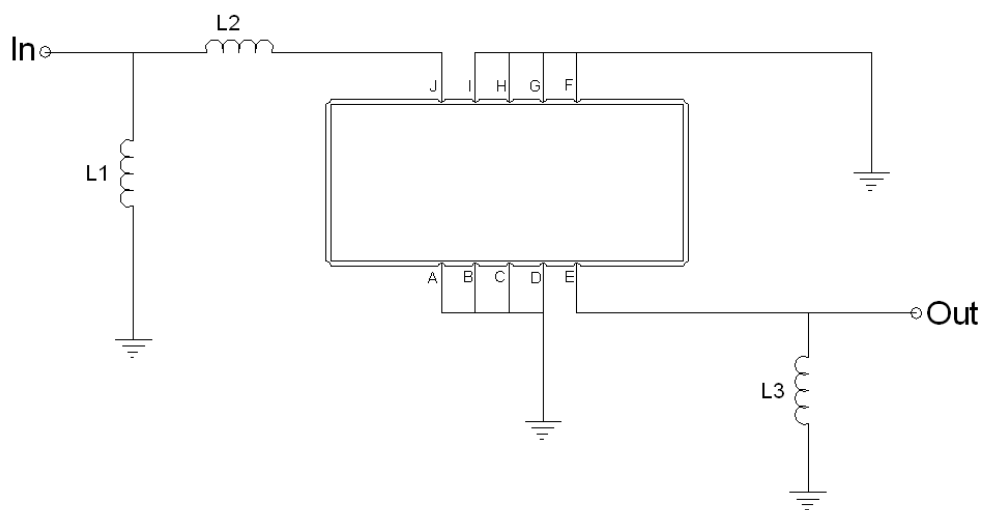
## Package Dimensions



- ① SAWNICS: Brand
- ② SA18515B: 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

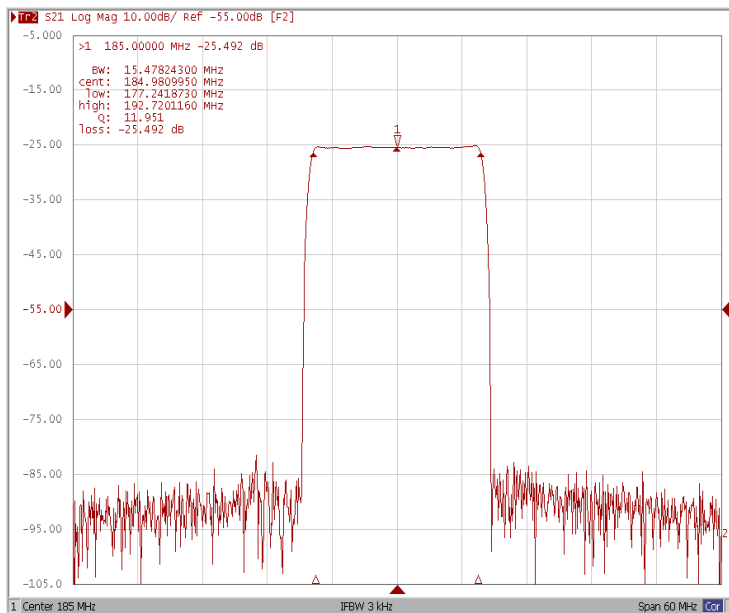


Test Fixture & Values	
Input	L1=15nH, L2=8.2nH
Output	L3=22nH,
Source/Load Impedance	50 Ω

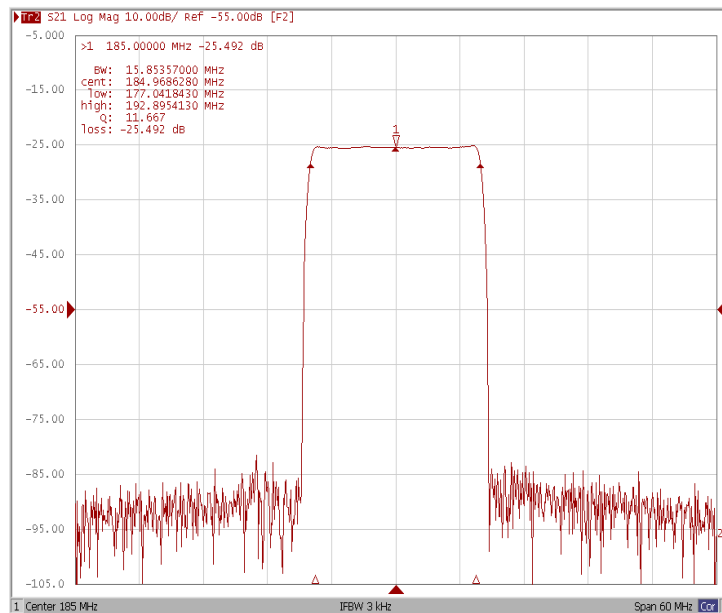
# Frequency Characteristics

## Frequency Response

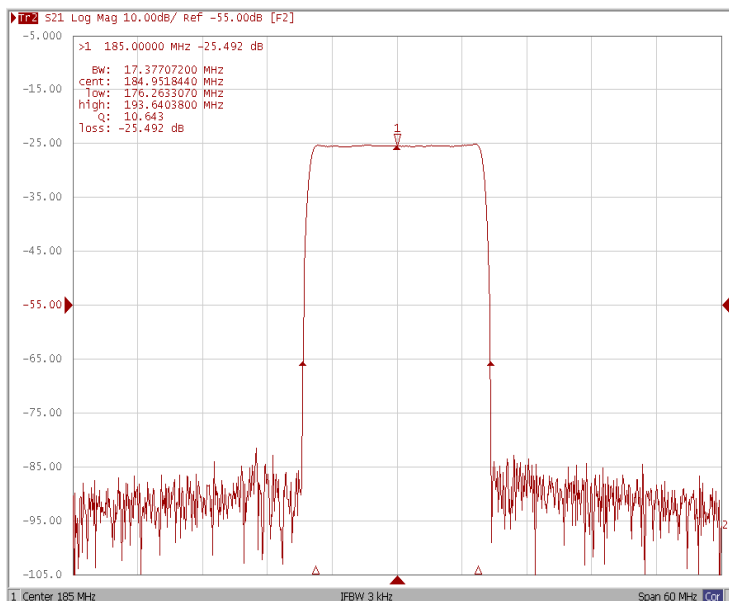
Bandwidth at -1.0 dB



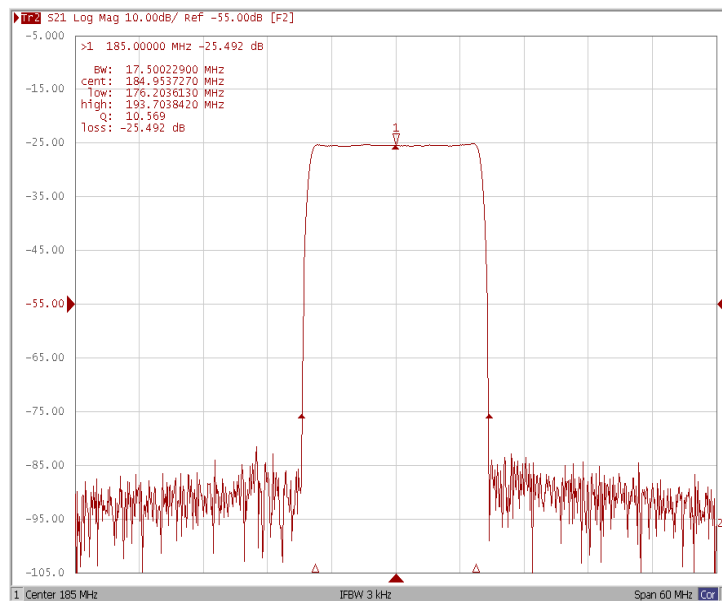
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



Bandwidth at -50.0 dB



## Frequency Response

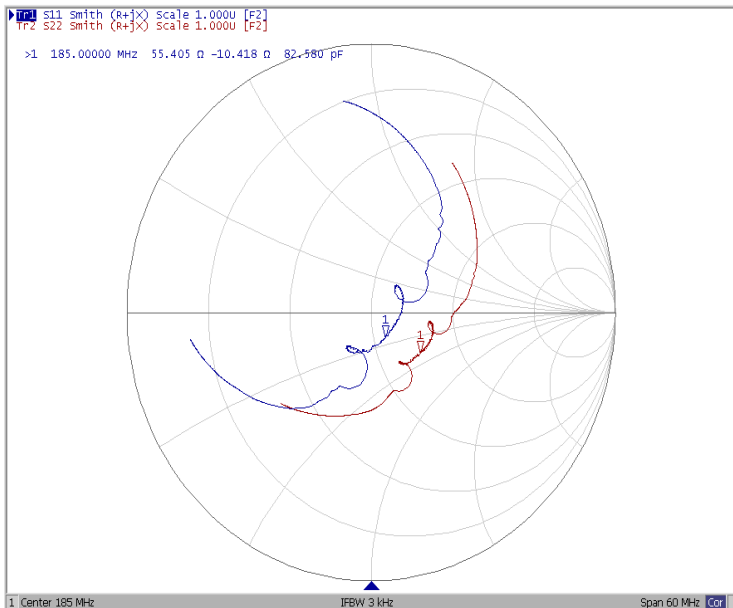
### Ripple Variation Fo±7.5MHz



### Group Delay Variation Fo±7.5MHz



### Smith Chart



### VSWR

