

## Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-5	-	+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

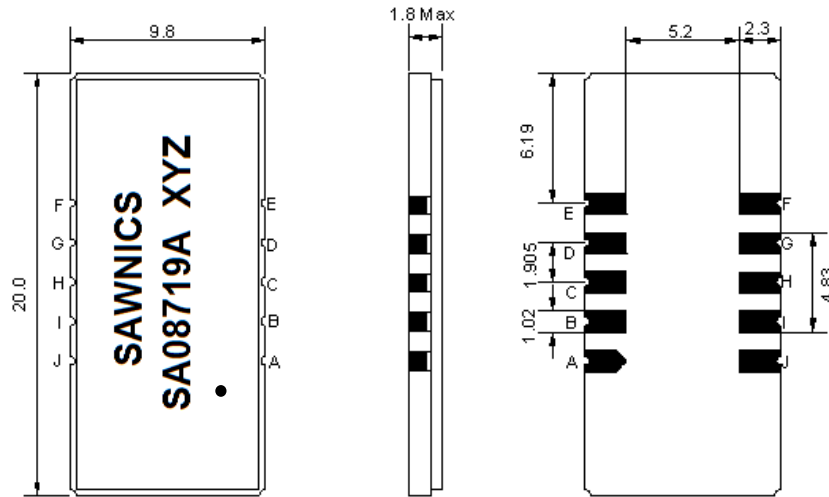
## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	87.40	87.50	87.60
Insertion Loss at Fo	dB	-	22.50	25.00
Group Delay Variation (Fo±9.42MHz)	nsec	-	35	70
Absolute Delay at Fo	usec	-	2.22	2.40
Passband Ripple Variation(Fo±9.42MHz)	dB	-	0.50	1.00
Bandwidth at -1dB	MHz	19.30	19.50	-
Bandwidth at -3dB	MHz	-	19.85	-
Bandwidth at -50dB	MHz	-	21.35	21.60
Ultimate Rejection	dB	50	53	-
Temperature Coefficient	ppm/°C	-	-72	-

**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.

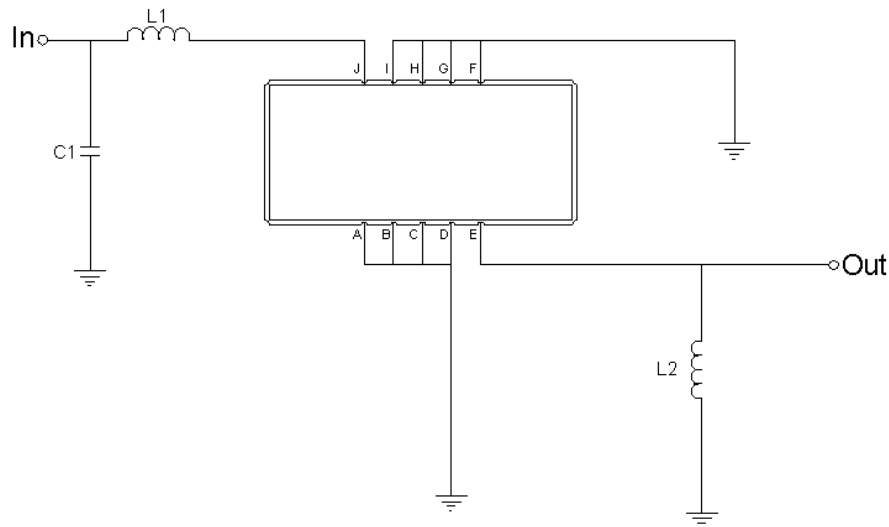
## Package Dimensions



- ① SAWNICs: Brand
- ② SA08719A: 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

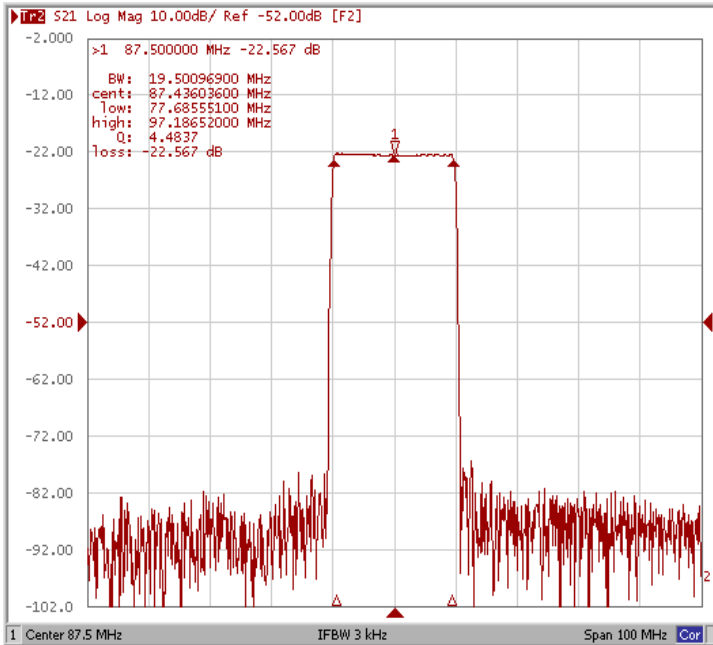
## Testing Environment



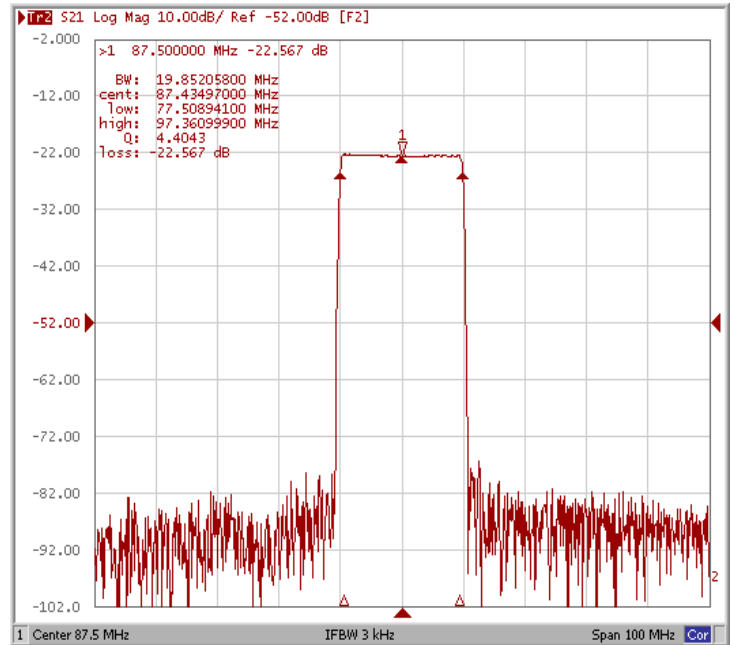
Test Fixture & Values	
Input	L1 =120 nH, C1=18 pF
Output	L2 = 150 nH
Source/Load Impedance	50 Ω

## Frequency Response

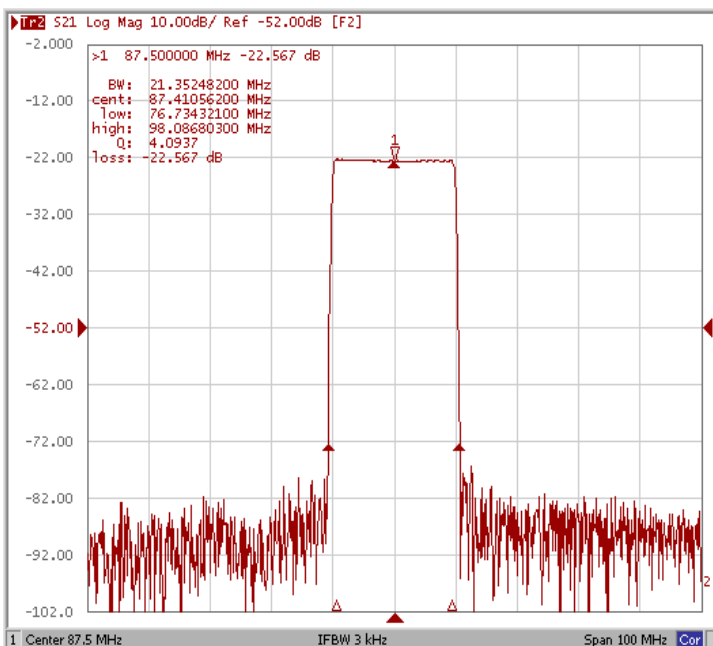
Bandwidth at -1.0 dB



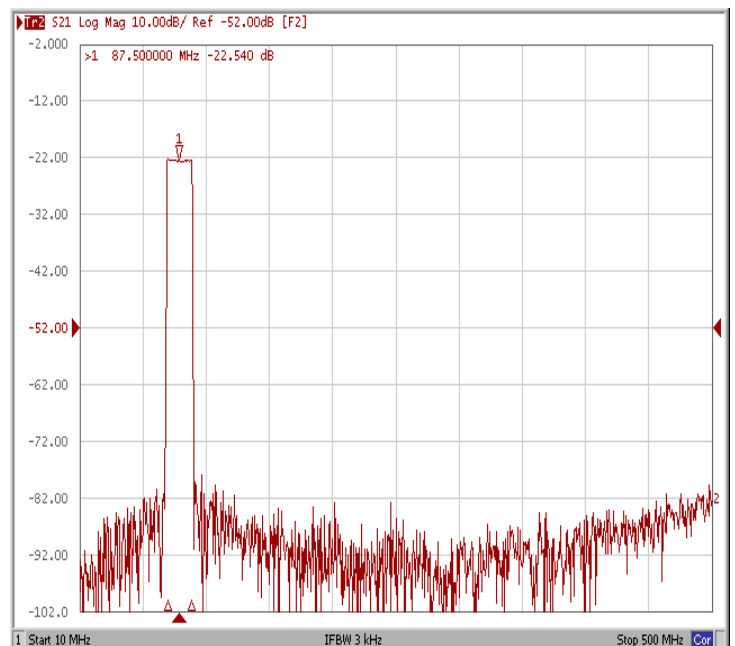
Bandwidth at -3.0 dB



Bandwidth at -50.0 dB

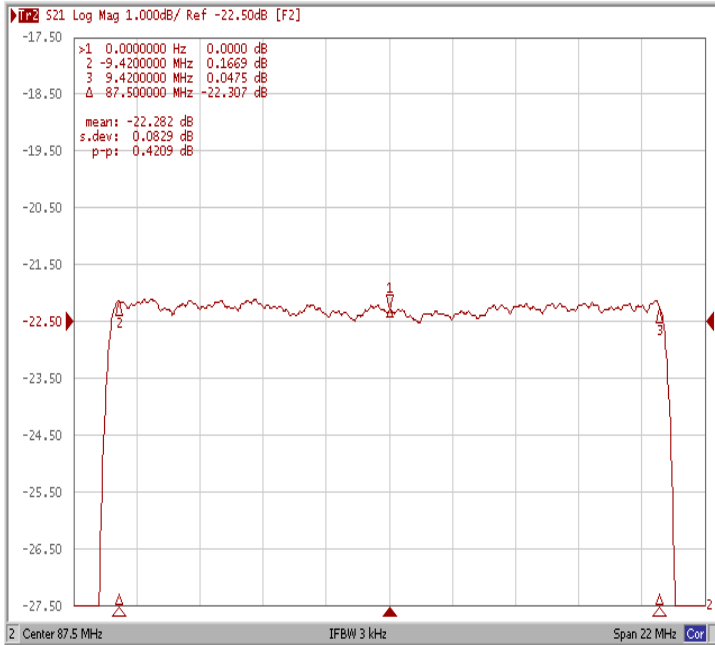


Wide-Band

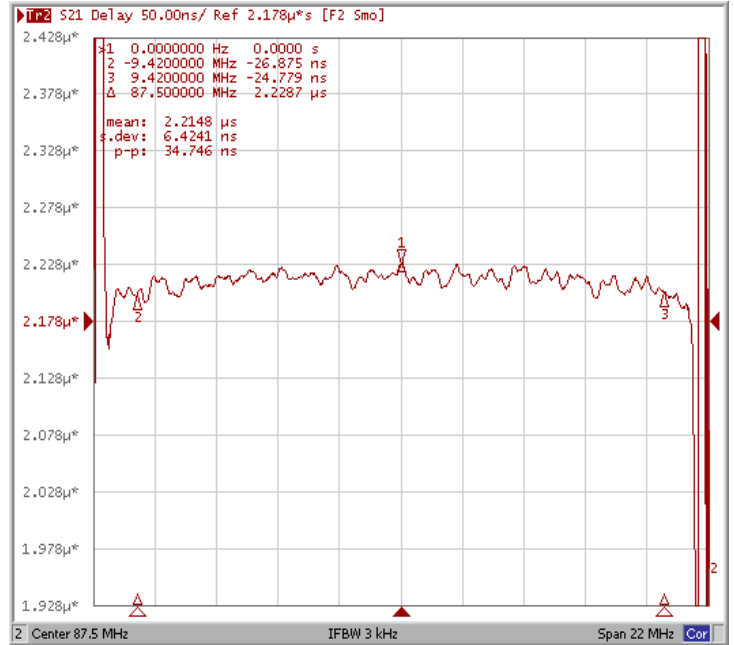


## Frequency Response

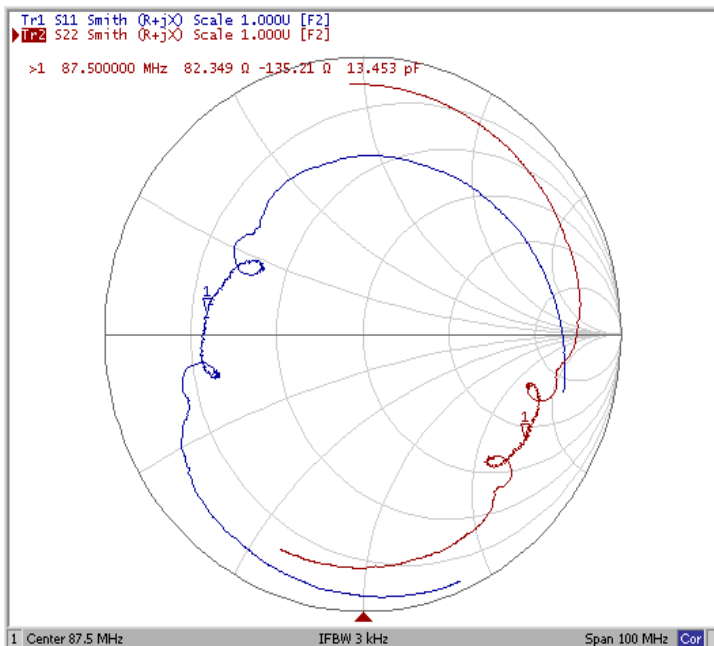
### Ripple Variation $Fo \pm 9.42\text{MHz}$



### Group Delay Variation $Fo \pm 9.42\text{MHz}$



### Smith Chart



### VSWR

