

## Maximum Ratings

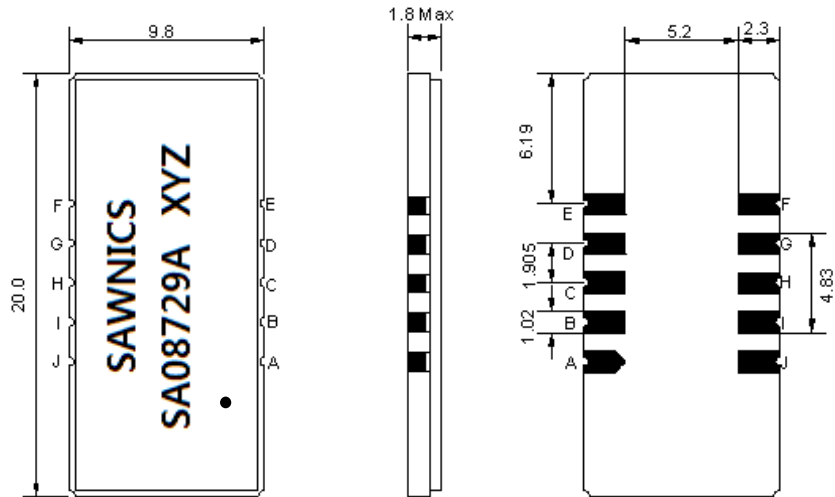
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-5	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package 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	-	87.50	-
Insertion Loss at Fo	dB	-	26.00	28.00
Group Delay Variation (Fo±14.32MHz)	nsec	-	29	70
Absolute Delay at Fo	usec	-	2.08	-
Passband Ripple Variation(Fo±14.32MHz)	dB	-	0.55	1.00
Bandwidth at -1dB	MHz	29.30	29.55	-
Bandwidth at -3dB	MHz	-	29.90	-
Bandwidth at -50dB	MHz	-	31.50	31.70
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.

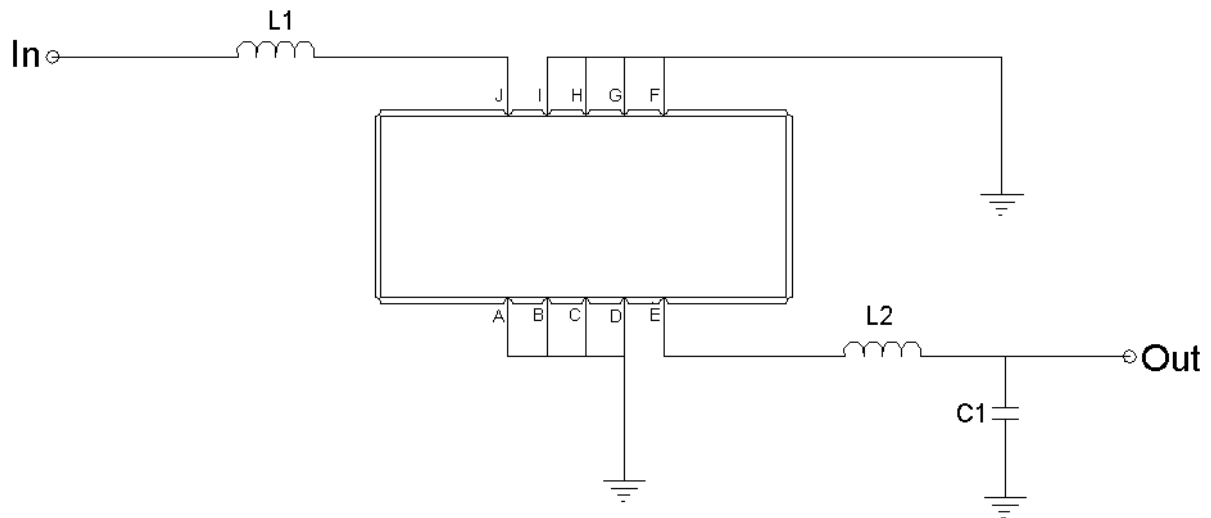
## Package Dimensions



- ① SAWNICS: Brand
- ② SA08729A: 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

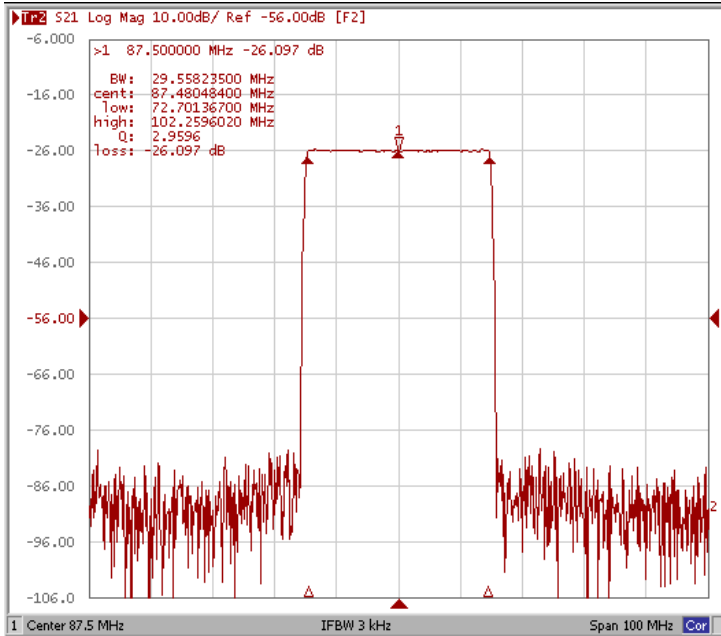
## Testing Environment



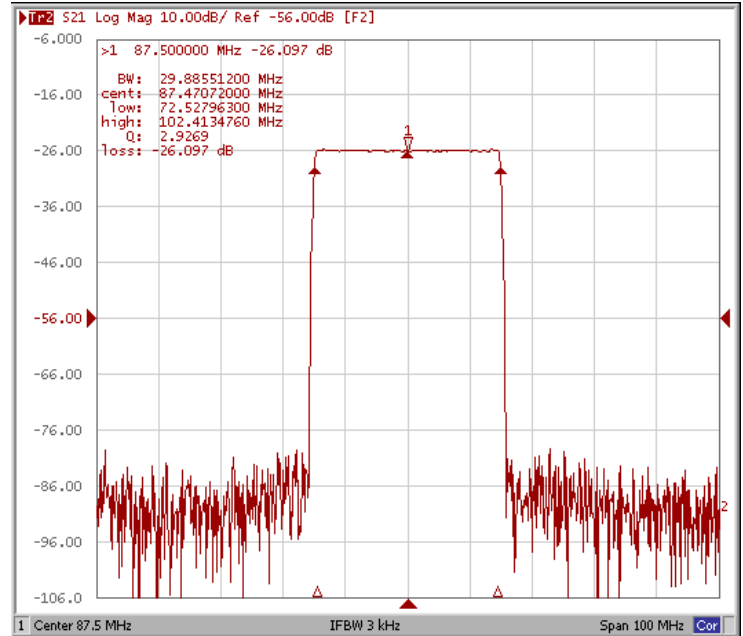
Test Fixture & Values	
Input	L1 = 120 nH
Output	L2 = 120 nH, C1 = 24 pF
Source/Load Impedance	50 $\Omega$

## Frequency Response

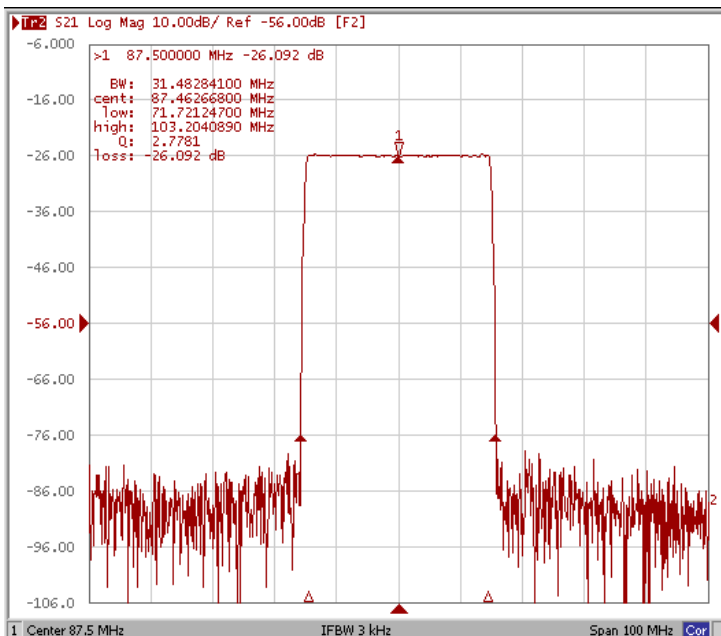
### Bandwidth at -1.0 dB



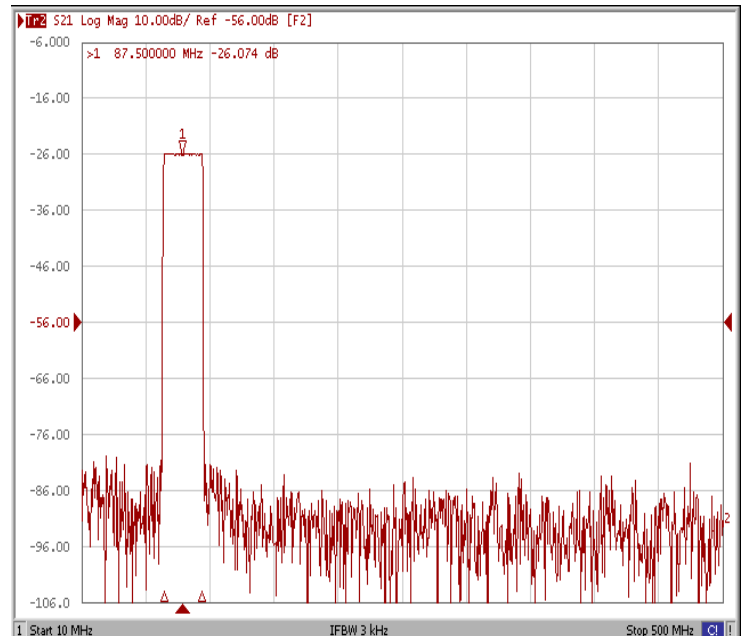
### Bandwidth at -10.0 dB



### Bandwidth at -50.0 dB

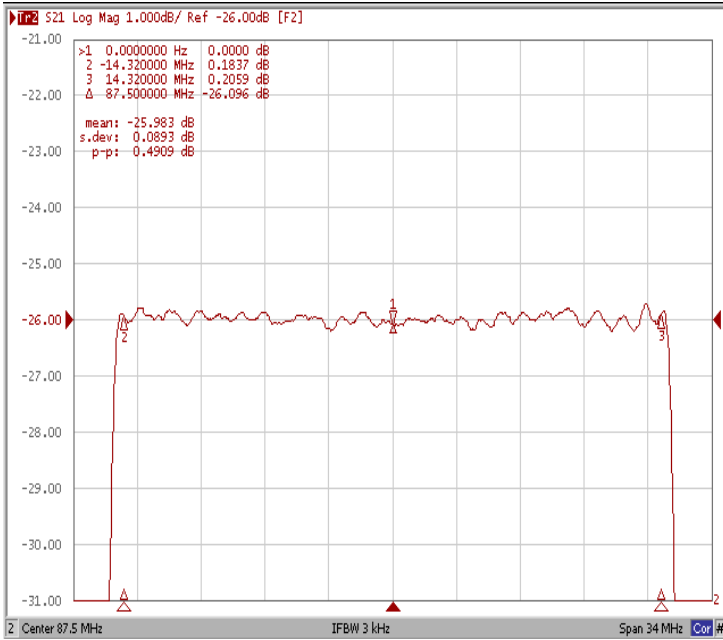


### Wide-Band

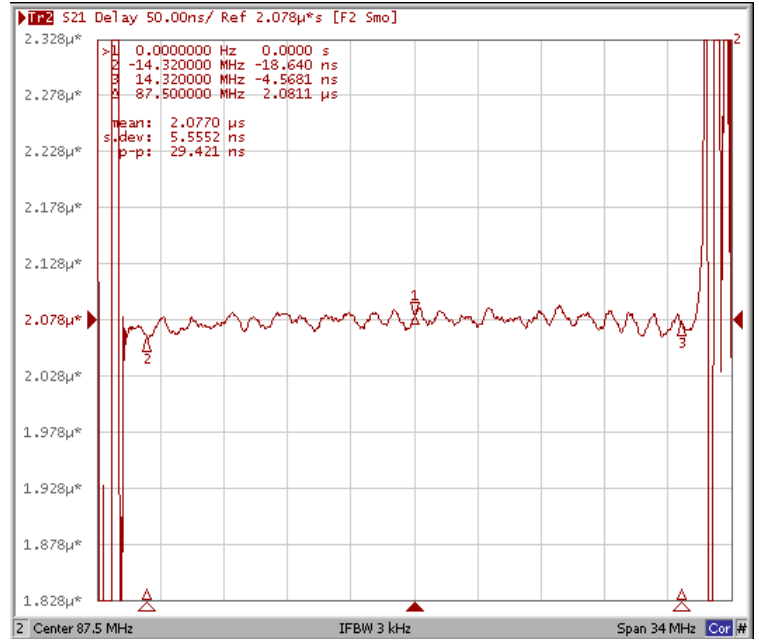


## Frequency Response

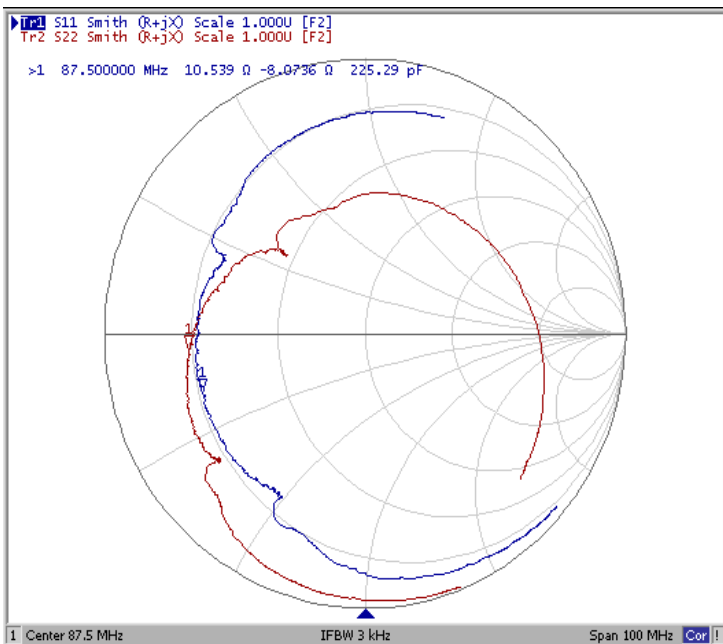
### Ripple Variation $F_o \pm 14.32\text{MHz}$



### Group Delay Variation $F_o \pm 14.32\text{MHz}$



### Smith Chart



### VSWR

