❒ Electrical Characteristics

Maximum Ratings

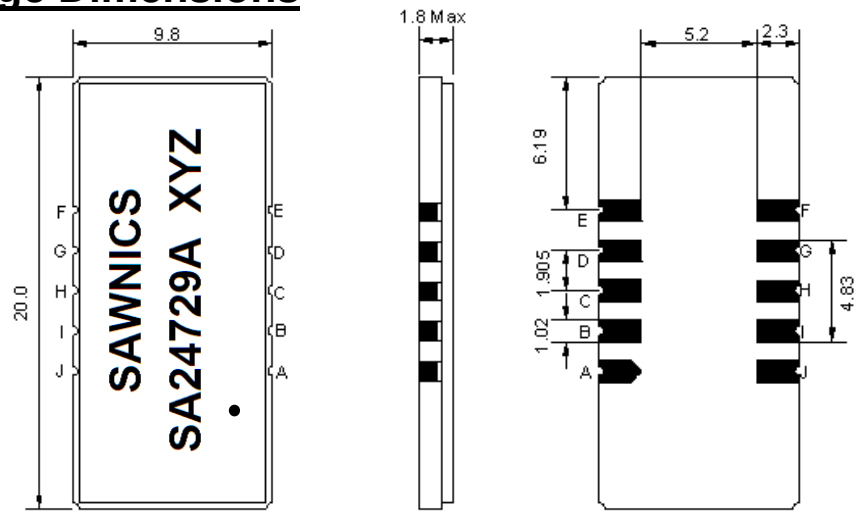
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	D1			
Length x Width	mm²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	247.5	-
Insertion Loss at Fo	dB	-	31.6	-
Group Delay Variation at Fo ± 14.32 MHz	nsec	-	50	80
Absolute Delay at Fo	usec	-	2.93	-
Passband Ripple Variation at Fo ± 14.32 MHz	dB	-	0.59	1.10
Bandwidth at -1dB	MHz	29.40	29.70	-
Bandwidth at -3dB	MHz	-	29.98	-
Bandwidth at -40dB	MHz	-	31.25	31.45
Ultimate Rejection	dB	47	52	-
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.

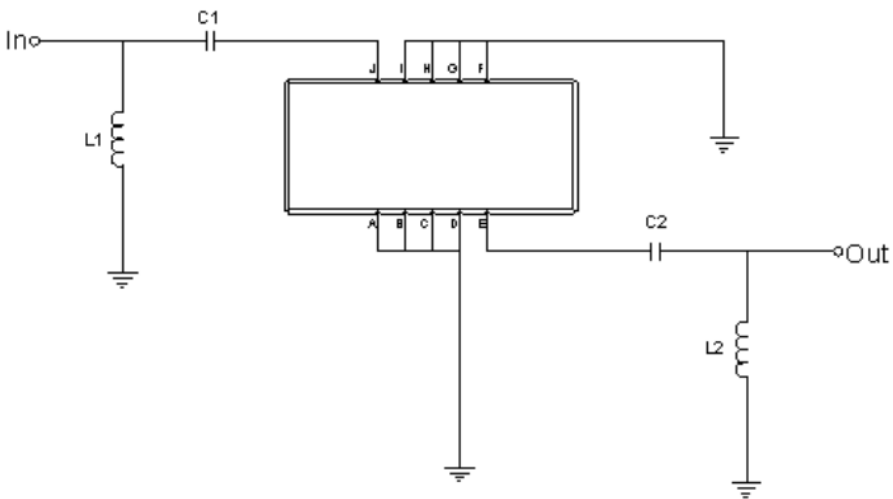
❒ Package Dimensions



① SAWNICS: Brand
② SA24729A: 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

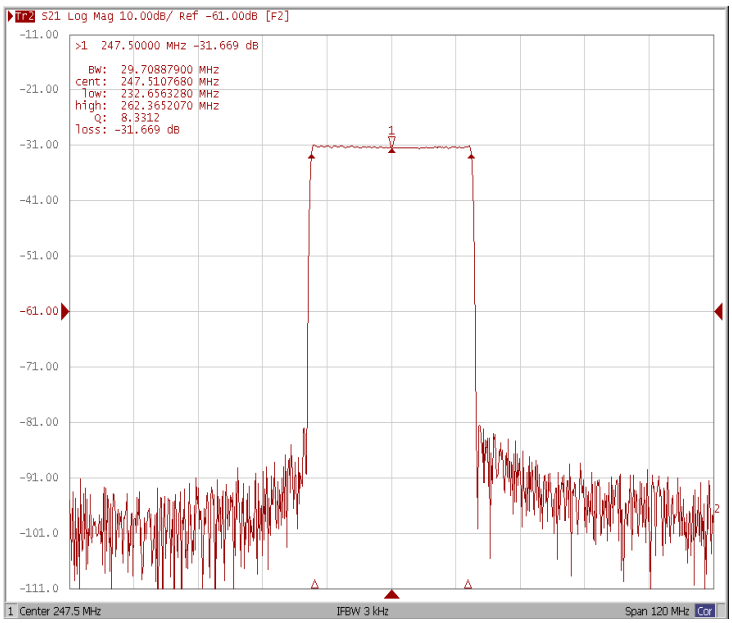


Test Fixture & Values	
Input	L1 = 8.2 nH, C1 = 680 pF
Output	L2 = 8.2 nH, C2 = 560 pF
Source/Load Impedance	50 Ω

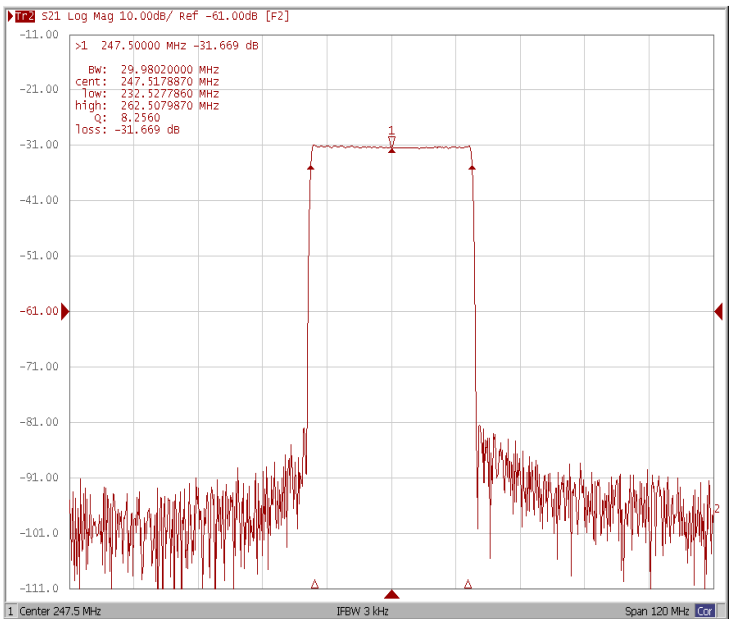
❒ Frequency Characteristics

Frequency Response

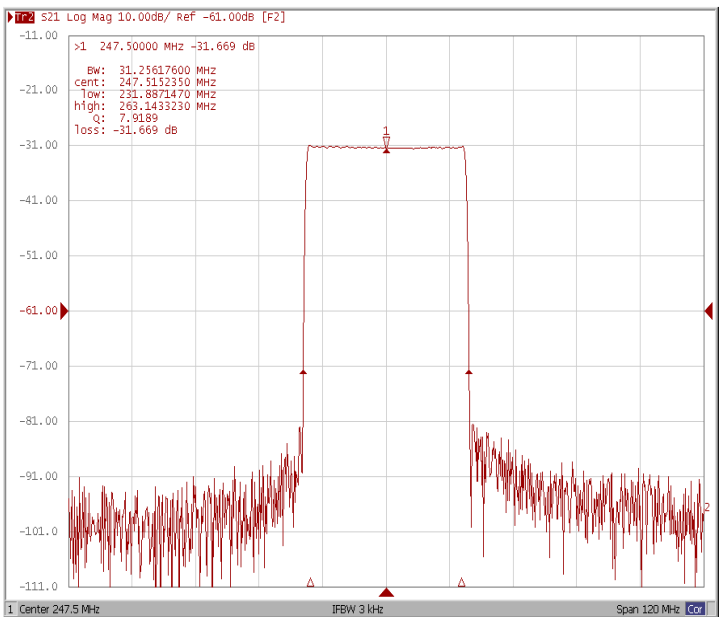
Bandwidth at –1.0 dB



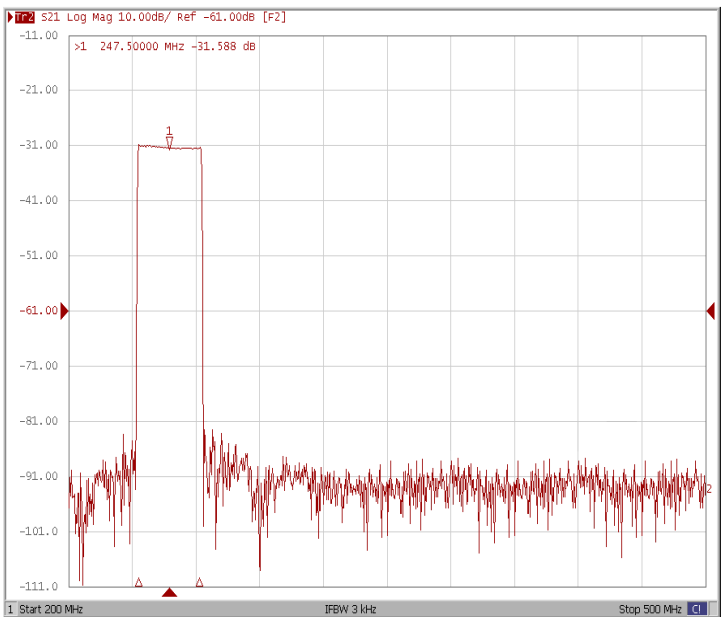
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB



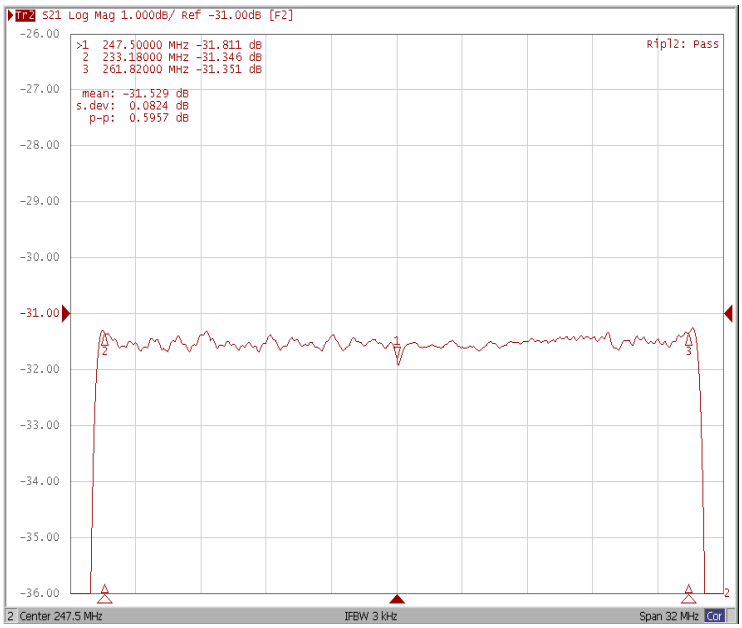
Wide-Band



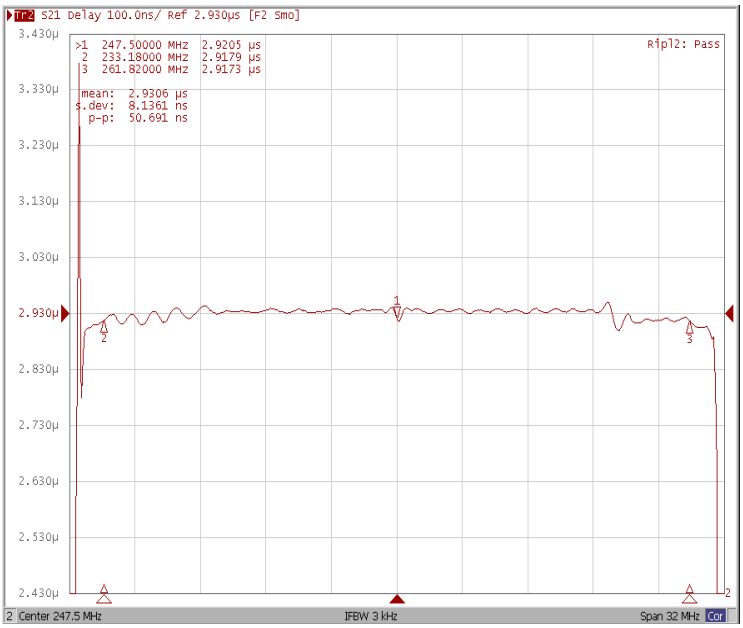
❒ Frequency Characteristics

Frequency Response

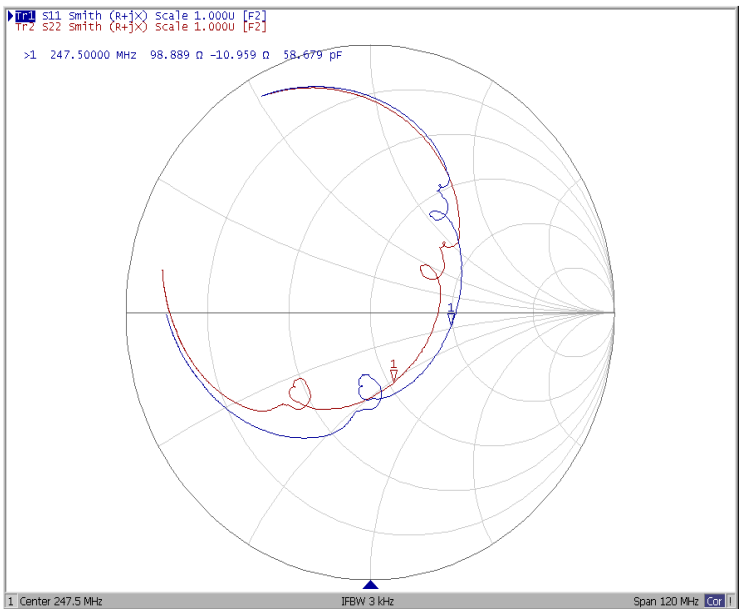
Ripple Variation Fo±14.32 MHz



Group Delay Variation Fo±14.32MHz



Smith Chart



VSWR