



Total Solution Provider in Saw Device

SA26405AV

264.0MHz IF SAW Filter

5.70MHz Bandwidth

Revision 0 : 24.August.2009



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

SAWNICS Inc.

460 Cheonheung-ri, Seonggeo-eup, Cheonan-si, Chungcheongnam-do, 330-836 / Korea.
Tel: +82 41 550 9372 / Fax: +82 41 550 9399 / www.sawnics.com

□ Electrical Characteristics

Maximum Ratings

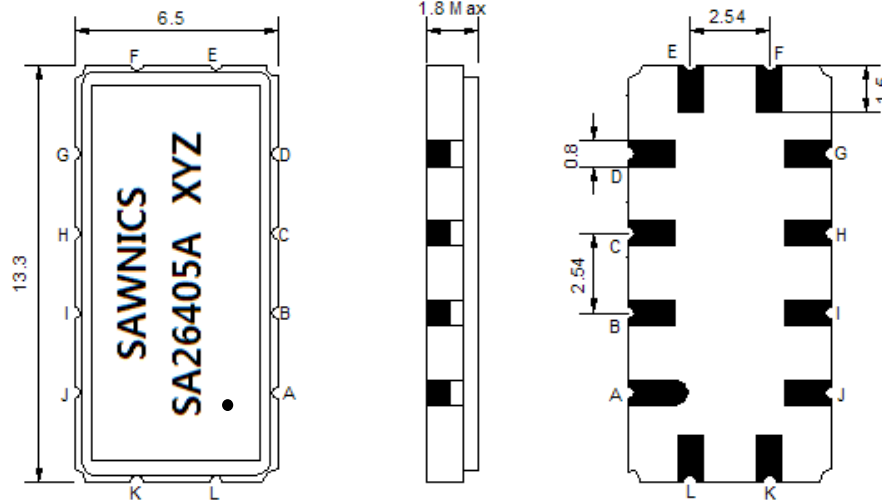
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	70
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	V			
Length x Width	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	264.0	-
Insertion Loss at Fo	dB	-	24.00	25.50
Group Delay Variation at Fo±2.5MHz	ns	-	59	90
Absolute Delay at Fo	us	-	1.76	-
Amplitude Ripple at Fo±2.5MHz	dB	-	0.30	0.80
Bandwidth at -1dB	MHz	5.40	5.70	-
Bandwidth at -3dB	MHz	-	6.05	-
Bandwidth at -40dB	MHz	-	7.37	7.60
Relative Attenuation				
Fo±4.0MHz	dB	45	54	-
Lower Sidelobe	dB	47	52	-
Upper Sidelobe	dB	47	52	-
Temperature Coefficient	ppm/°C	-	-0.03	-

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.

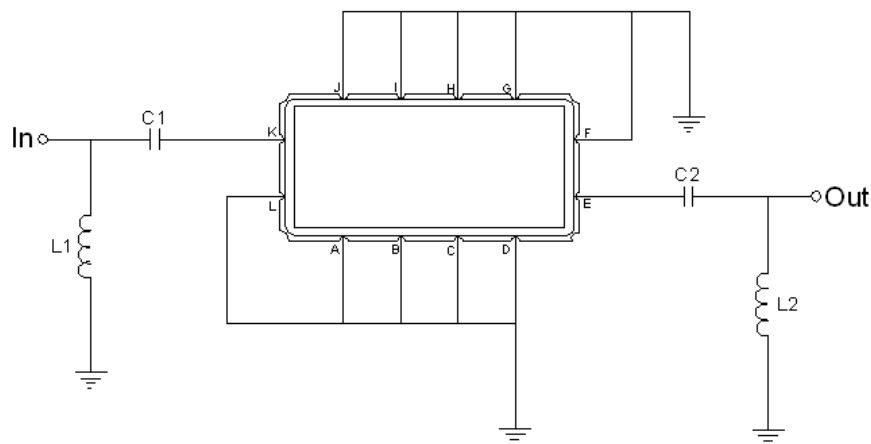
Package Dimensions



- ① SAWNICS: Brand
- ② SA26405A: 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, J, L	Ground
K	Input
E	Output

Testing Environment



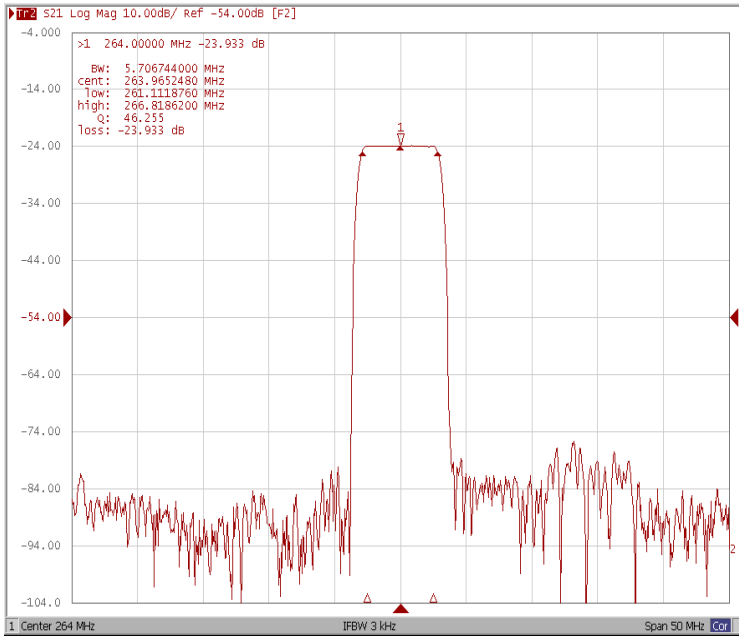
Test Fixture & Values	
Input	L1 = 10 nH , C1 = 200 pF
Output	L2 = 8.2 nH , C2 = 150 pF
Source/Load Impedance	50 Ω



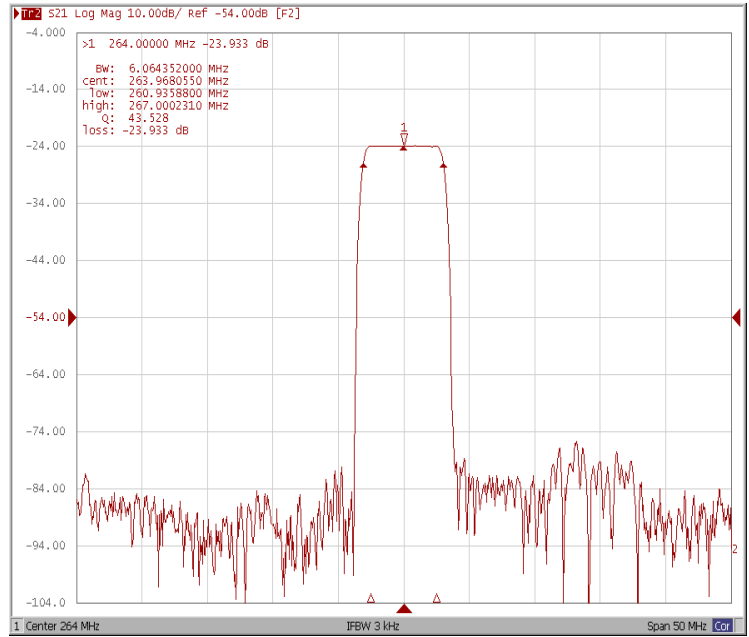
Frequency Characteristics

Frequency Response

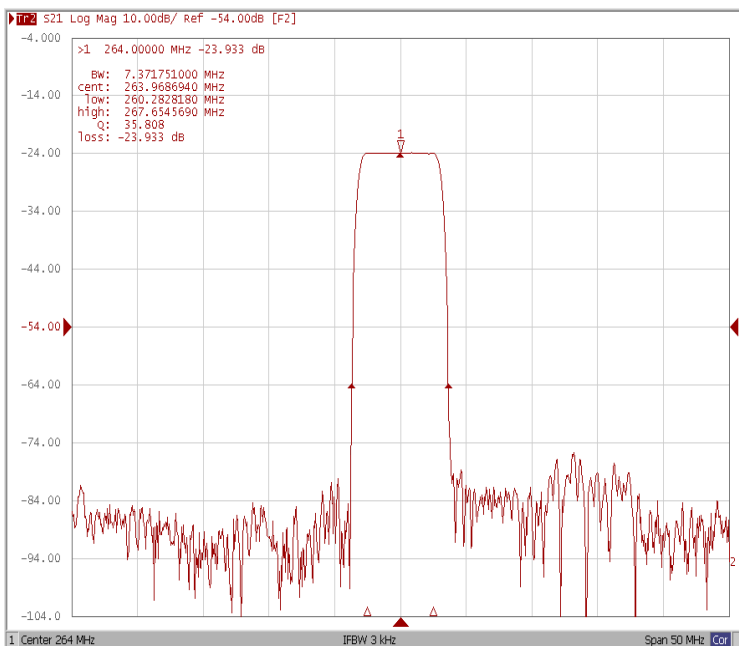
Bandwidth at -1.0 dB



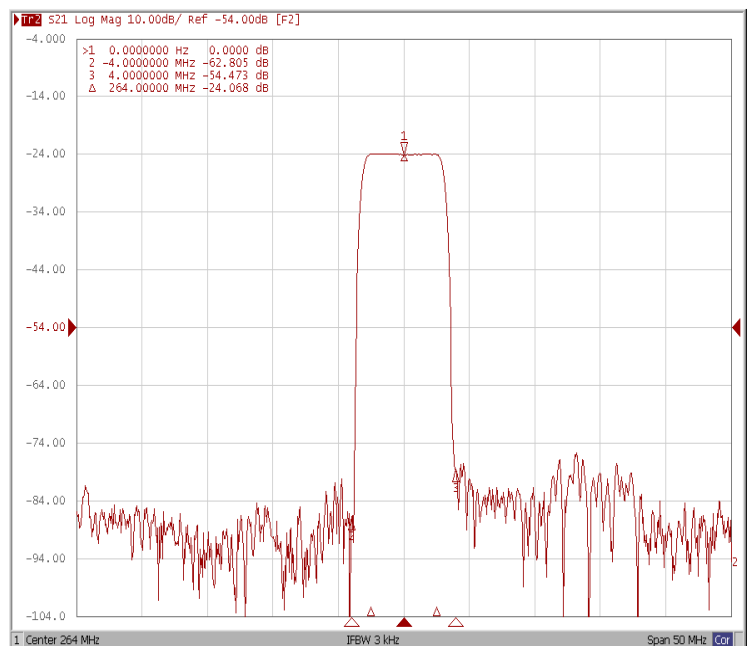
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



Relative Attenuation at Fo±4.0MHz

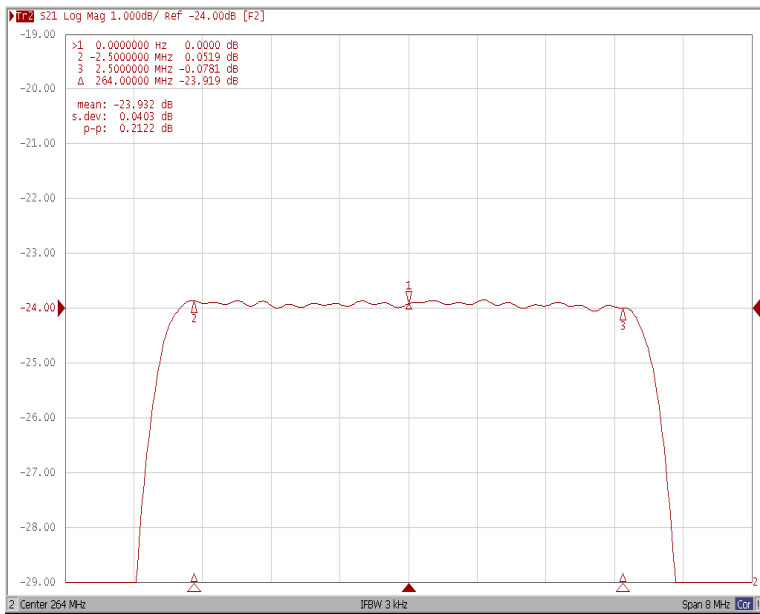




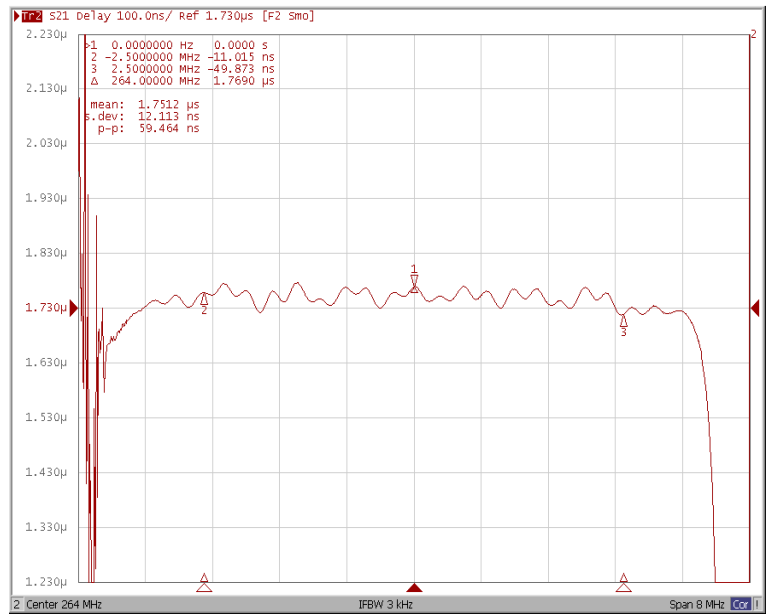
Frequency Characteristics

Frequency Response

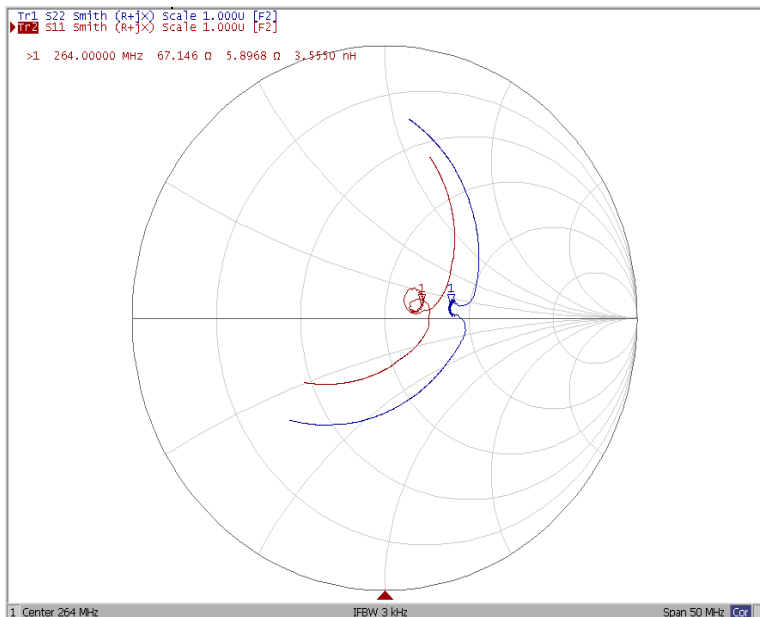
Ripple Variation at $F_o \pm 2.5\text{MHz}$



Group Delay Variation at $F_o \pm 2.5\text{MHz}$



Smith Chart



VSWR

