



Total Solution Provider in Saw Device

SL06303AV

63.8MHz IF SAW Filter
3.60MHz Bandwidth
Revision 0 : 5. March. 2010



- 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

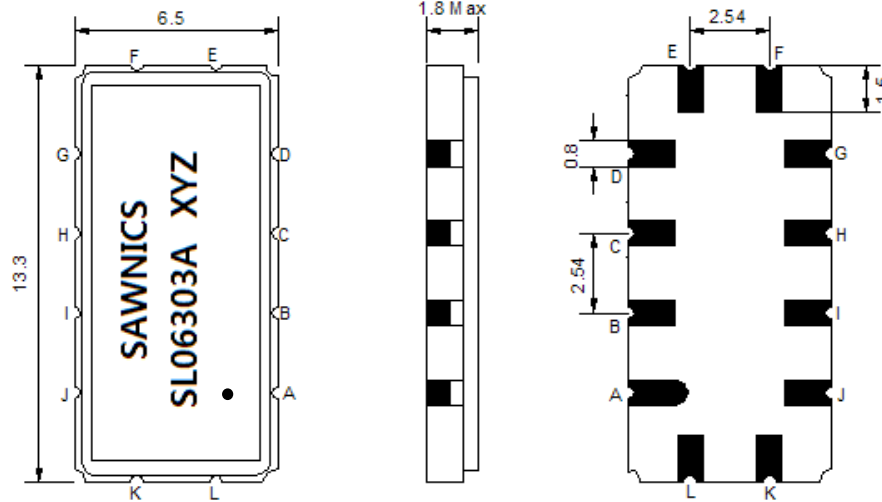
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-5	-	65
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	V			
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	63.70	63.80	63.90
Insertion Loss at Fo	dB	-	13.30	15.00
Group Delay Variation (Fo±1.50MHz)	ns	-	35	70
Absolute Delay Time at Fo	us	-	1.68	1.80
Temperature Coefficient	ppm/°C	-	-18	-
Amplitude Ripple (Fo±1.50MHz)	dB	-	0.30	0.80
Bandwidth at -1dB	MHz	3.30	3.60	-
Bandwidth at -3dB	MHz	3.80	4.06	-
Bandwidth at -25dB	MHz	-	5.32	5.50
Bandwidth at -40dB	MHz	-	5.83	6.05
Ultimate Rejection	dB	45	50	-

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.

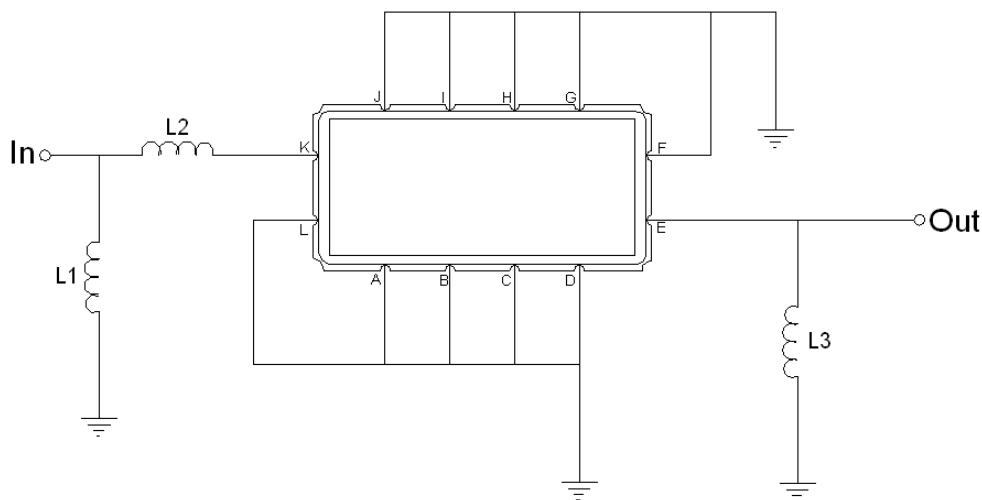
Package Dimensions



- ① SAWNICS: Brand
- ② SL06303A: 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

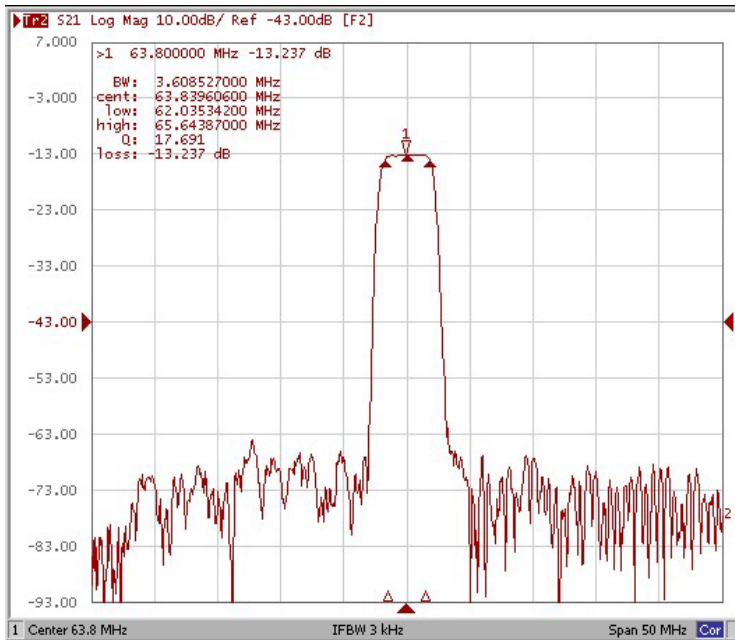


Test Fixture & Values	
Input	L1 = 68 nH, L2 = 12nH
Output	L3 = 56 nH,
Source/Load Impedance	50 Ω

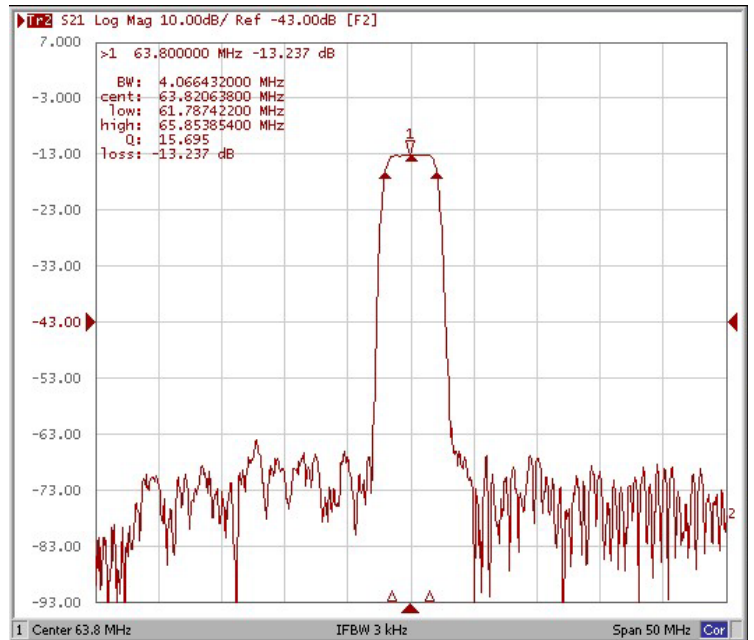
□ Frequency Characteristics

Frequency Response

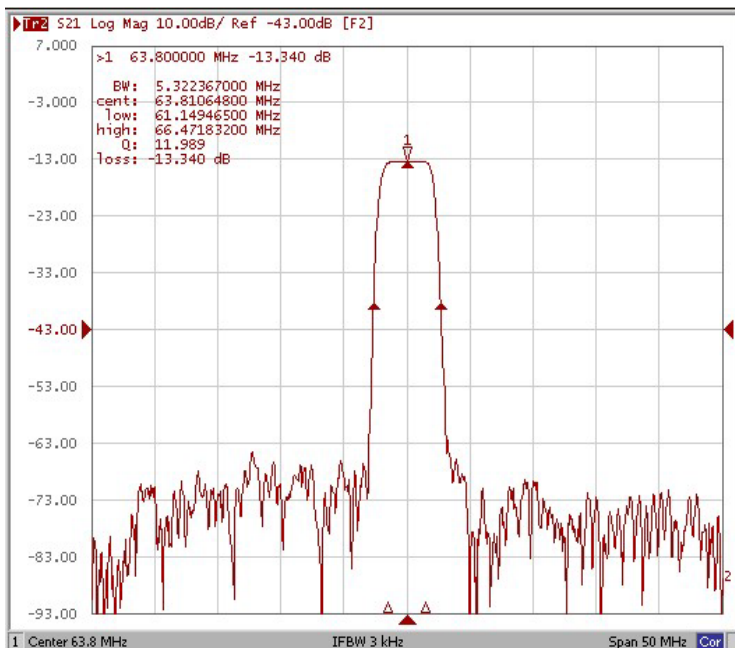
Bandwidth at -1.0 dB



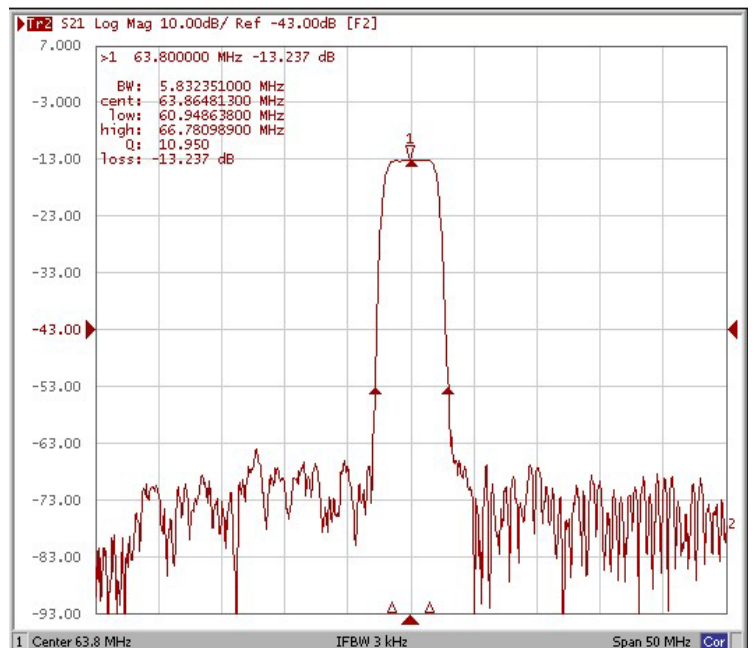
Bandwidth at -3.0 dB



Bandwidth at -25.0 dB



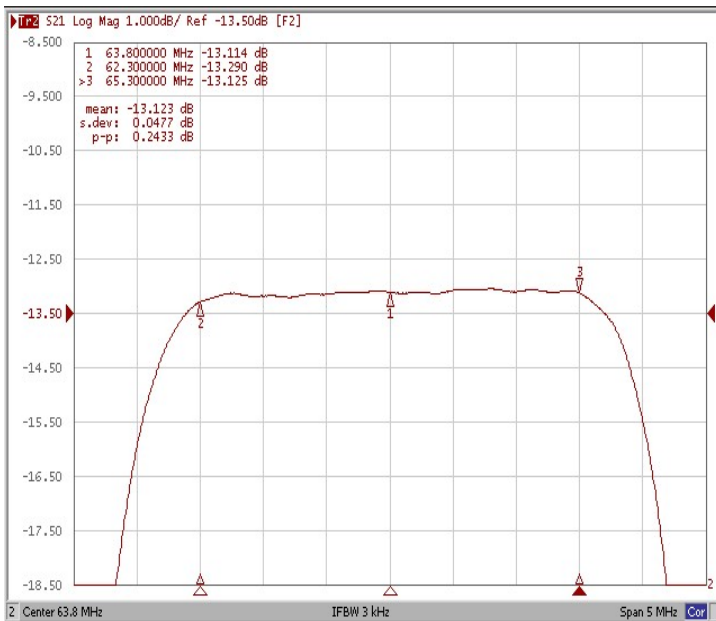
Bandwidth at -40.0 dB



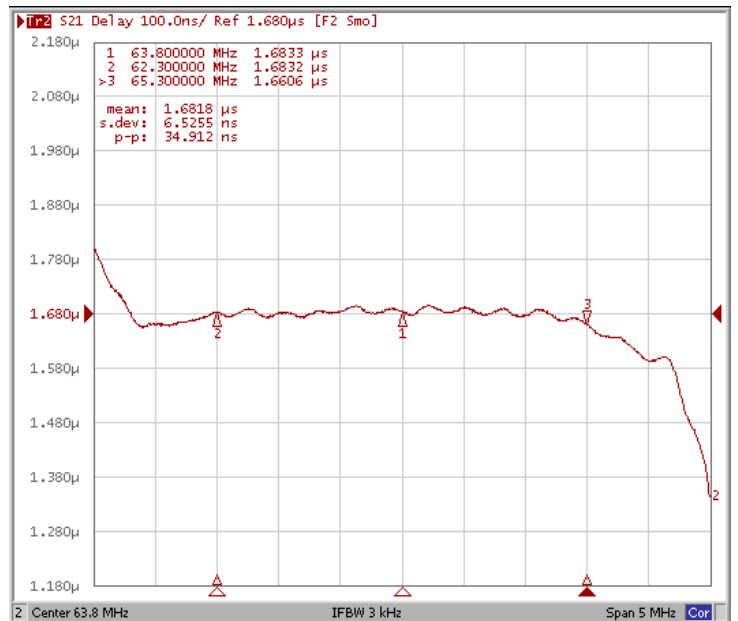
Frequency Characteristics

Frequency Response

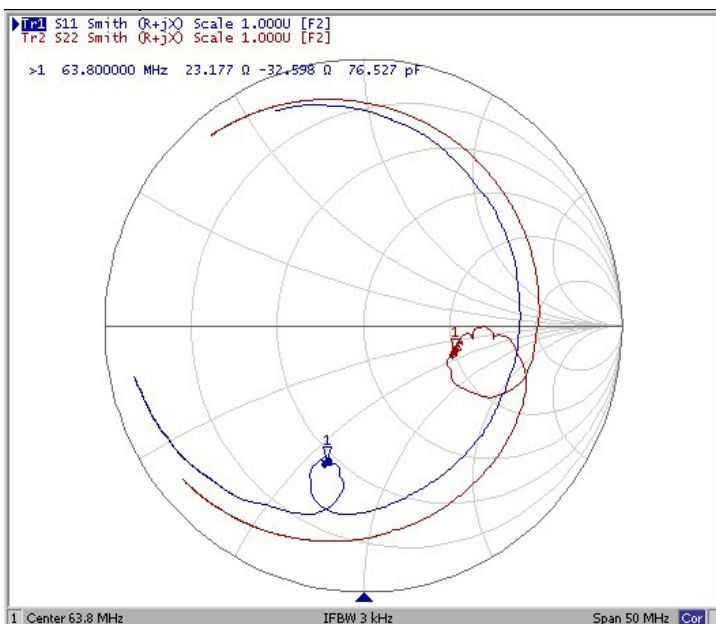
Ripple Variation $F_0 \pm 1.50\text{MHz}$



Group Delay Variation $F_0 \pm 1.50\text{MHz}$



Smith Chart



VSWR

