



Total Solution Provider in Saw Device

SL06020BV

60.0 MHz IF SAW Filter
20.05 MHz Bandwidth
Revision 0: 22. July. 2008



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

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□ Electrical Characteristics

Maximum Ratings

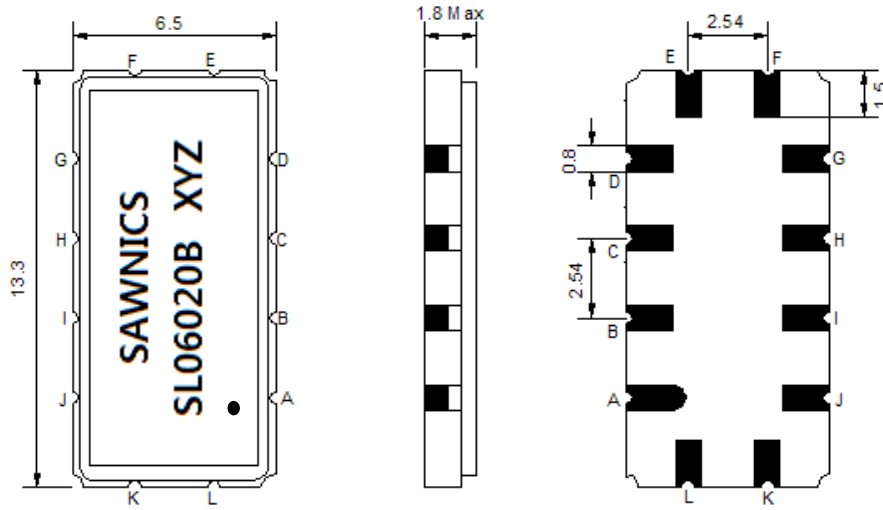
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	0		70
Storage Temperature Range	°C	-30	-	80
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	V			
Length 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	-	60.0	-
Insertion Loss at Fo	dB	-	14.6	16.0
Group Delay Variation (Fo±9.22MHz)	ns	-	30	80
Absolute Delay	us	-	1.34	-
Passband Ripple (Fo±9.22MHz)	dB	-	0.4	1.0
Bandwidth at -1dB	MHz	18.44	20.05	-
Bandwidth at -10dB	MHz	-	21.95	22.5
Bandwidth at -20dB	MHz	-	22.75	23.1
Bandwidth at -30dB	MHz	-	23.35	23.7
Bandwidth at -40dB	MHz	-	24.00	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency	ppm/°C		-86	

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.

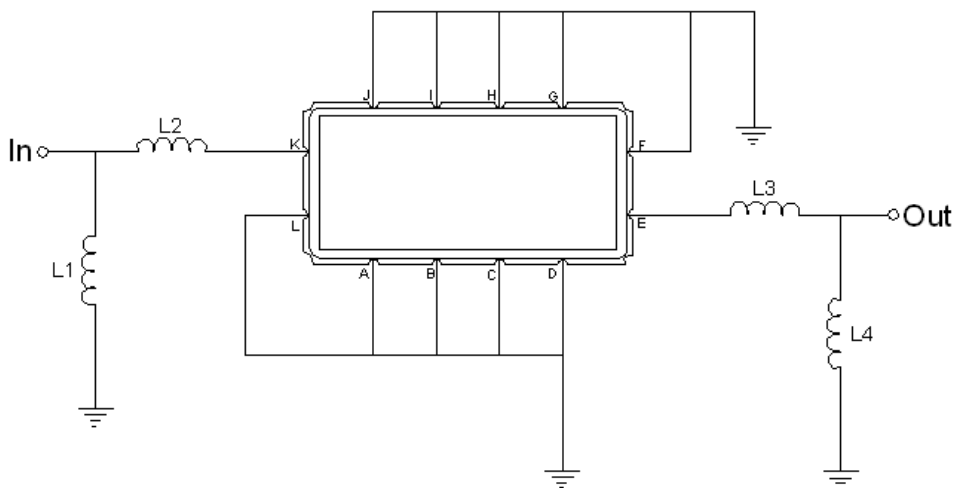
□ Package Dimensions



- ① SAWNICS: Brand
- ② SL06020B: 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



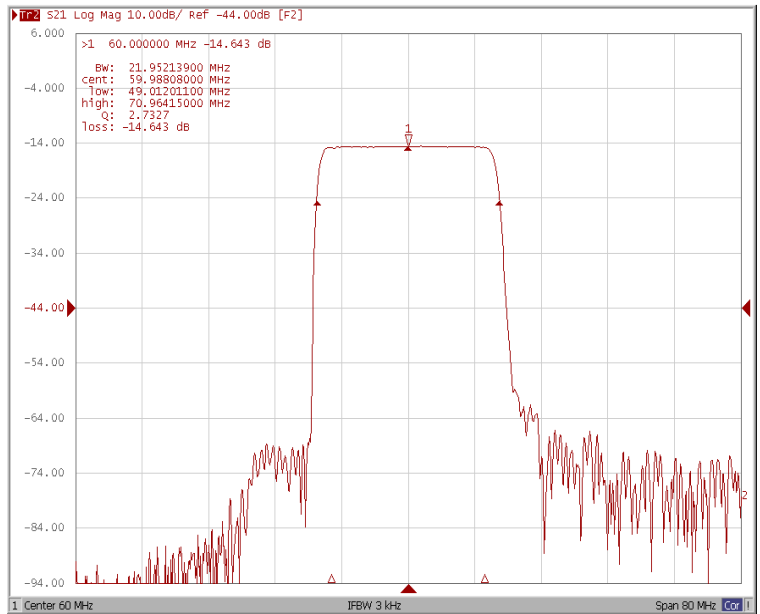
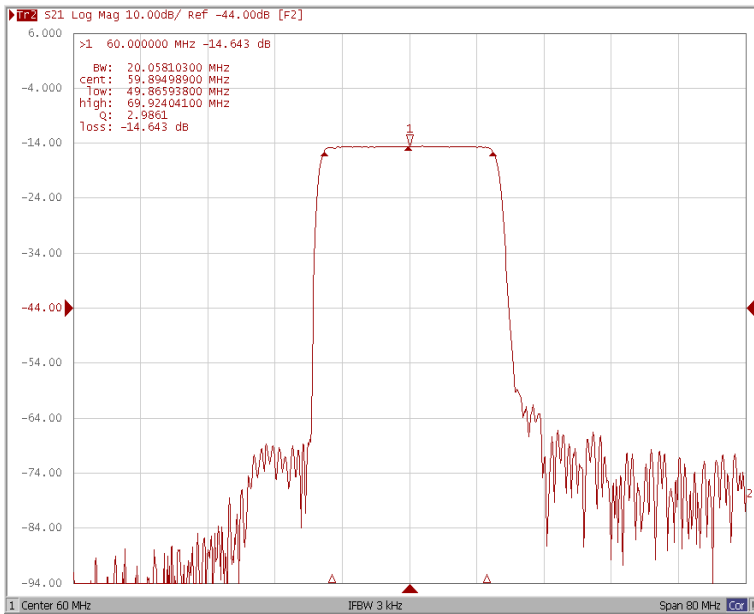
Test Fixture & Values	
Input	L1=100 nH, L2=22 nH
Output	L3=27 nH, L4=150 nH
Source/Load Impedance	50 Ω

□ Frequency Characteristics

Frequency Response

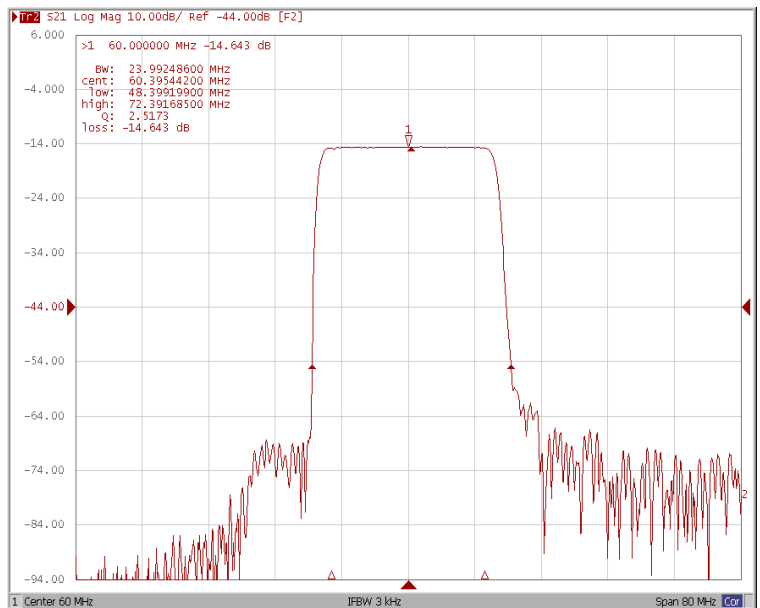
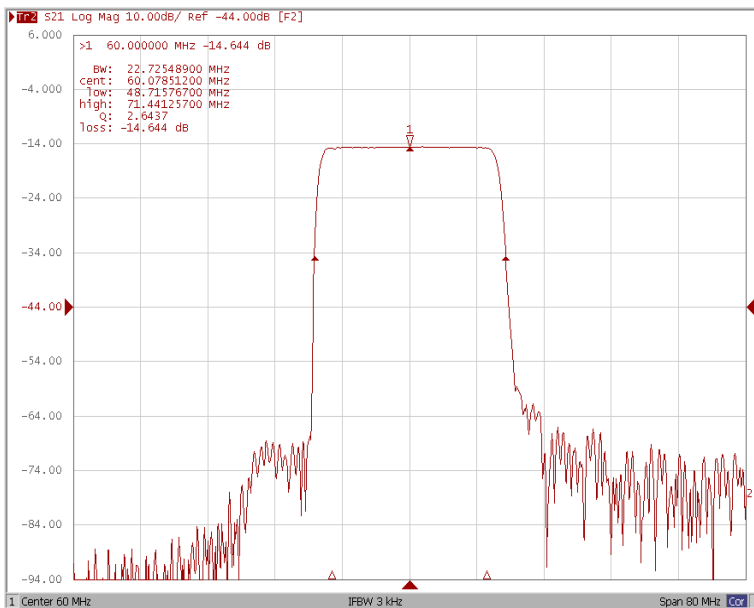
Bandwidth at -1.0 dB

Bandwidth at -10.0 dB



Bandwidth at -20.0 dB

Bandwidth at -40.0 dB

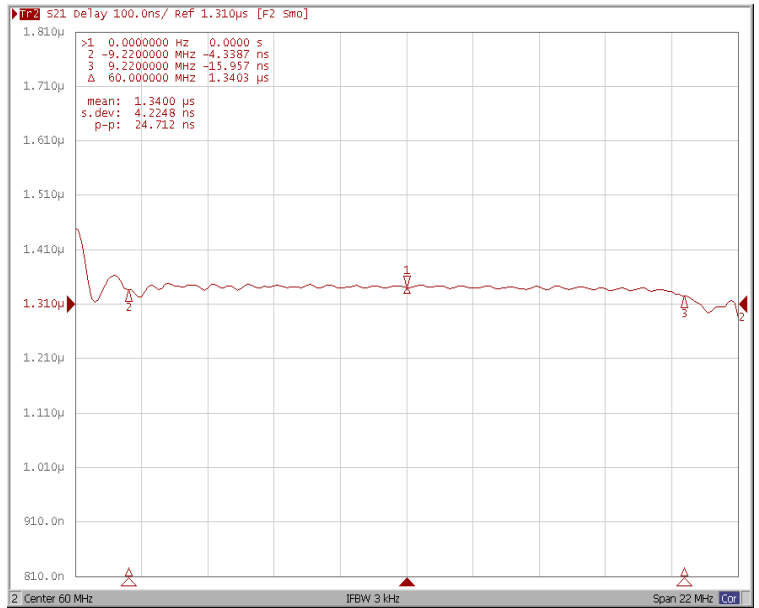
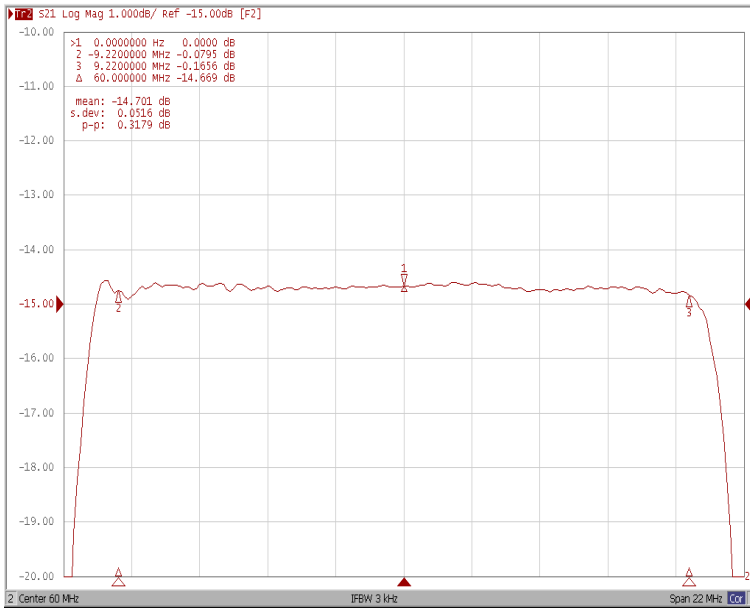


Frequency Characteristics

Frequency Response

Ripple Variation $F_o \pm 9.22\text{MHz}$

Group Delay Variation $F_o \pm 9.22\text{MHz}$



Smith Chart

VSWR

