



Total Solution Provider in Saw Device

SA26020AD1

260.0 MHz IF SAW Filter
20.23 MHz Bandwidth
Revision 0: 03. June. 2009.



- 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	-5	-	80
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	mm ²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

Electrical Specification

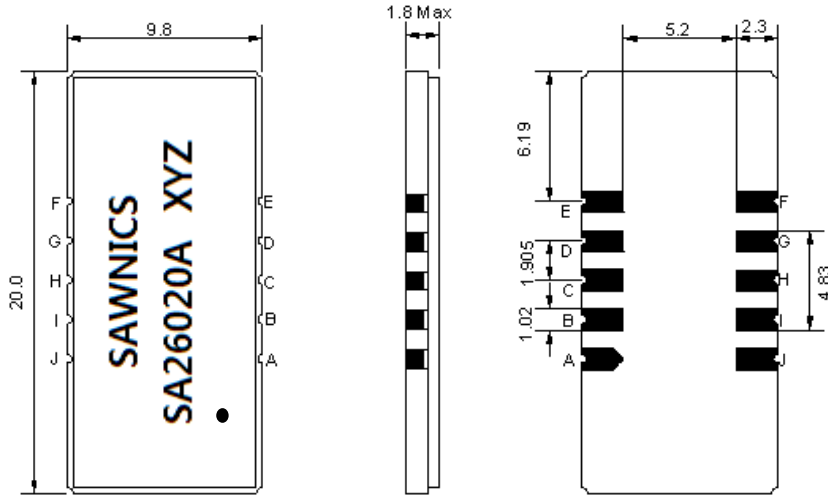
*Room Temperature : +25°C

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	260.0	-
Insertion Loss at Fo	dB	-	27.3	30.0
Group Delay Variation (Fo±9.80MHz)	nsec	-	50	90
Absolute Delay	usec	-	2.83	-
Passband Ripple (Fo±9.80MHz)	dB	-	0.70	1.10
Bandwidth at -1dB	MHz	-	20.23	-
Bandwidth at -3dB	MHz	20.3	20.5	-
Bandwidth at -40dB	MHz	-	21.7	22.0
Ultimate Rejection	dB	48	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.

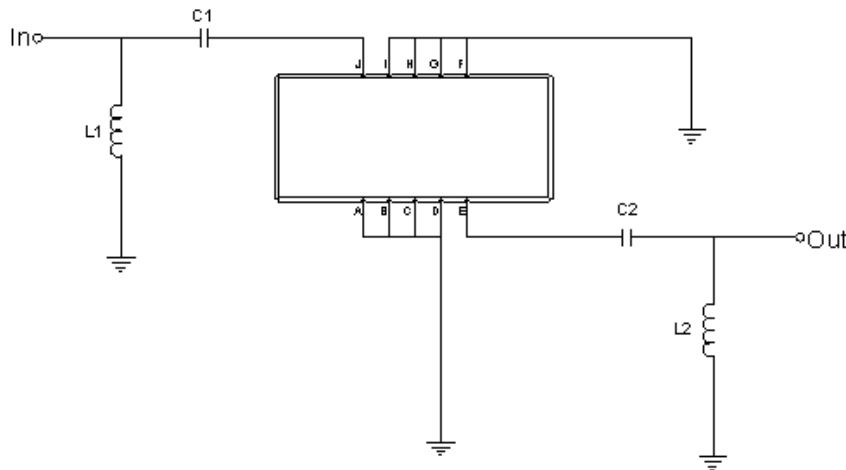
Package Dimensions



- ① SAWNICS: Brand
- ② SA26020A: 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

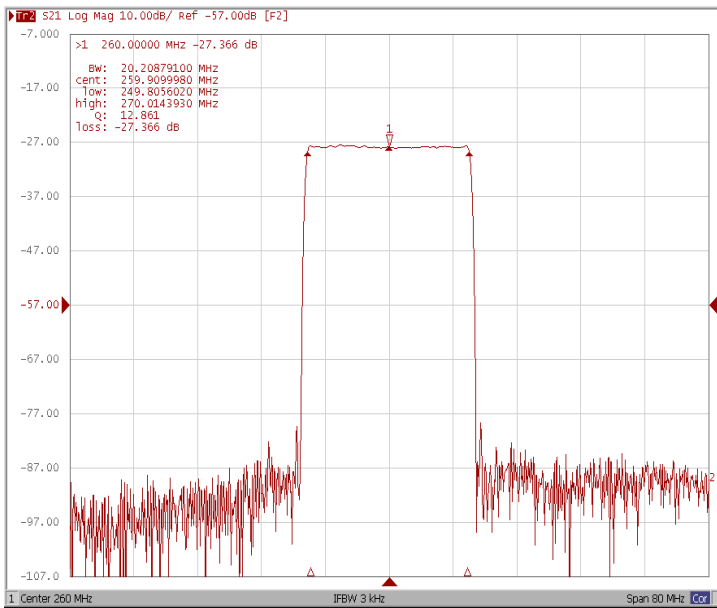


Test Fixture & Values	
Input	L1=10nH, C1=75pF
Output	L2=8.2nH, C2=75pF
Source/Load Impedance	50 Ω

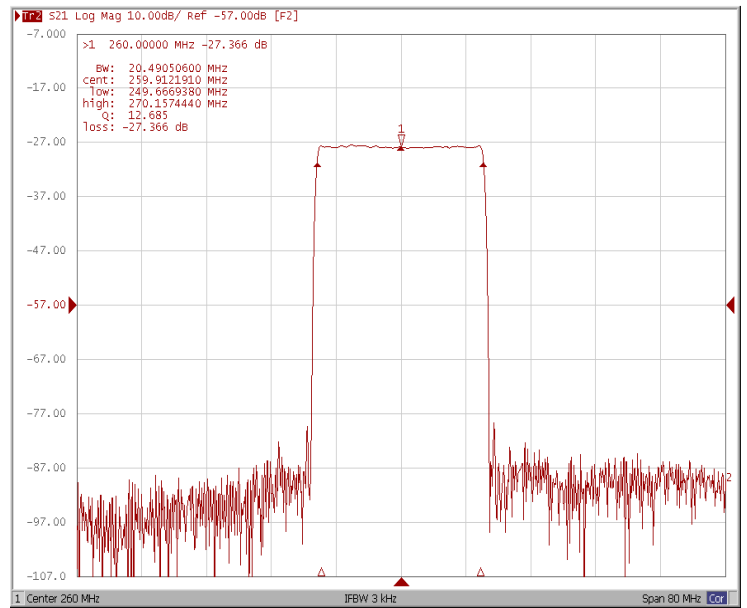
□ Frequency Characteristics

Frequency Response

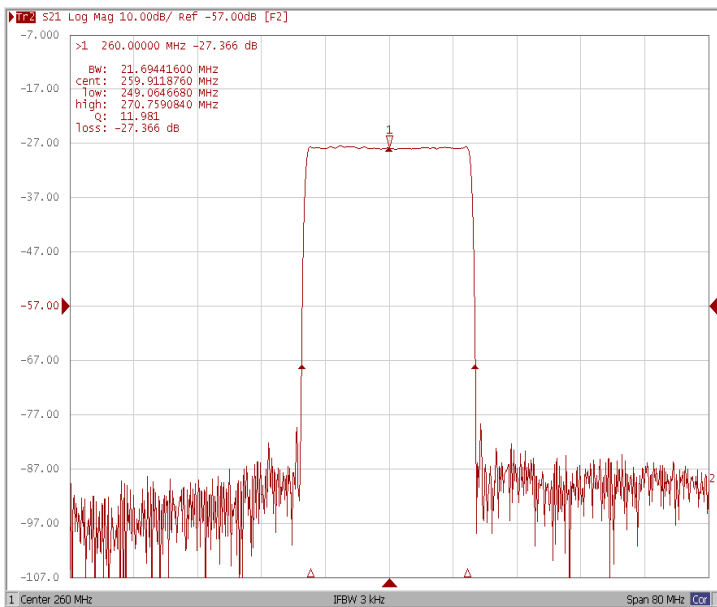
Bandwidth at -1.0 dB



Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



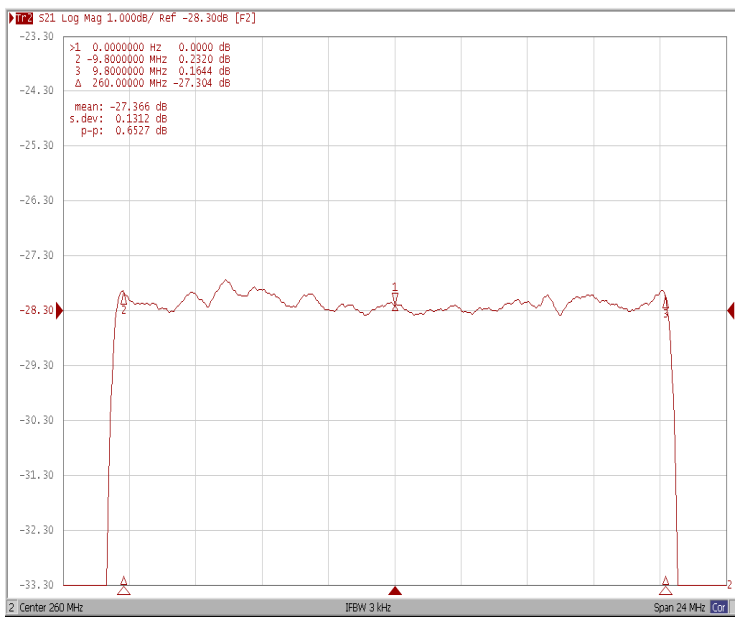
Bandwidth at -50.0 dB



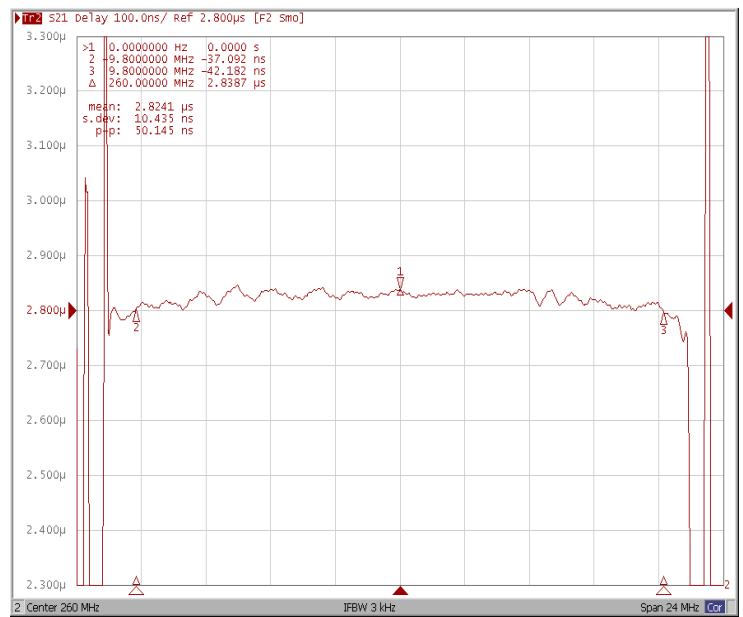
□ Frequency Characteristics

Frequency Response

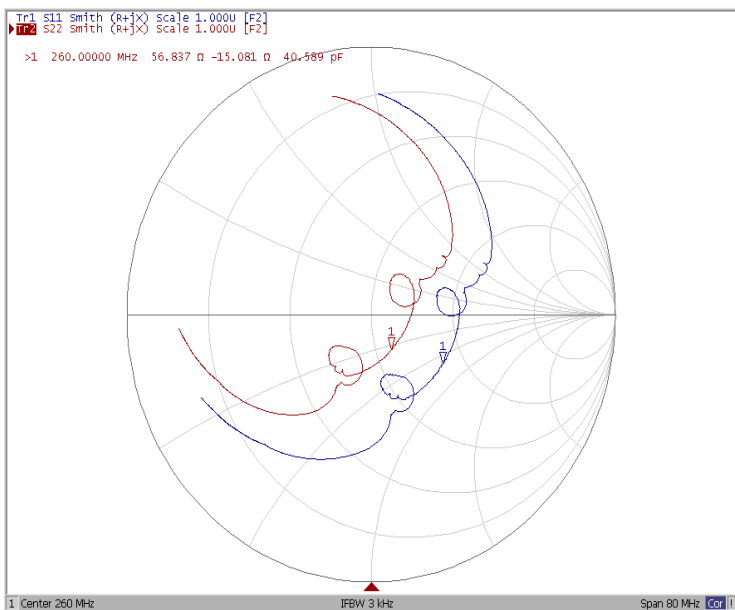
Ripple Variation $Fo \pm 9.80\text{MHz}$



Group Delay Variation $Fo \pm 9.80\text{MHz}$



Smith Chart



VSWR

