



Total Solution Provider in Saw Device

SA07026CD1

70MHz IF SAW Filter

26.55MHz Bandwidth

Revision 0: 24. August. 2009



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

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Electrical Characteristics

Maximum Ratings

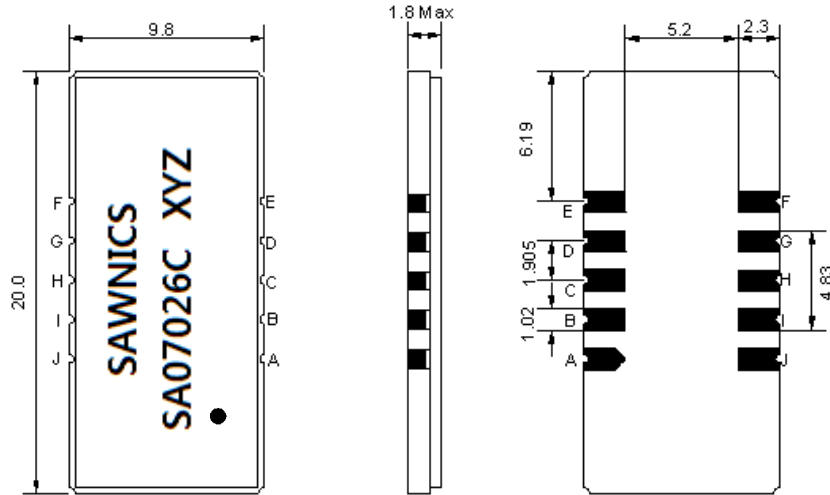
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	D1			
Length x Width	mm ²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	69.92	70.0	70.08
Insertion Loss at Fo	dB	-	25.5	27.0
Group Delay Variation at Fo ±12.49 MHz	nsec	-	35	90
Absolute Delay at Fo	µsec	-	2.0	-
Amplitude Ripple Variation at Fo ±12.49 MHz	dB _{p-p}	-	0.7	1.0
Bandwidth at -1.0 dB	MHz	-	26.55	-
Bandwidth at -3.0 dB	MHz	26.7	26.92	-
Bandwidth at -40.0 dB	MHz	-	28.42	28.6
Lower Sidelobe	dB	50	52	-
Upper Sidelobe	dB	50	52	-
Temperature Coefficient	ppm/°C	-	-72	-

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.

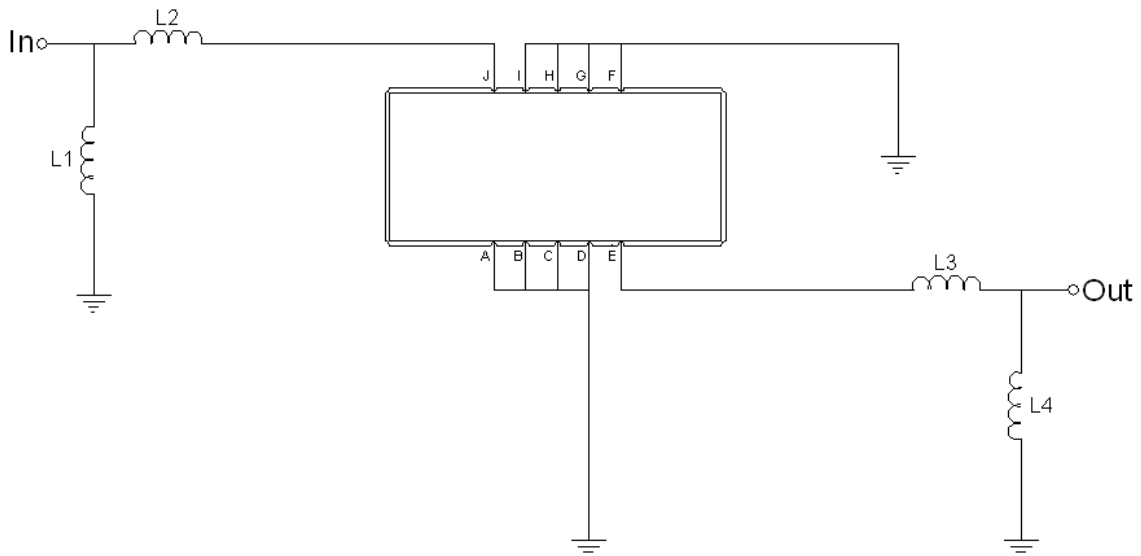
Package Dimensions



- ① SAWNICS: Brand
- ② SA07026C: 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



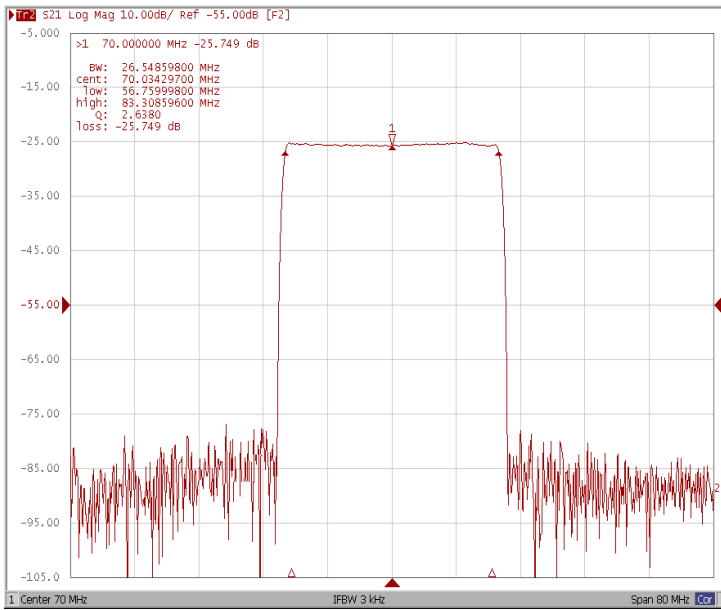
Test Fixture & Values	
Input	L1= 560 nH, L2= 220 nH
Output	L3= 150 nH, L4= 560 nH
Source/Load Impedance	50 Ω



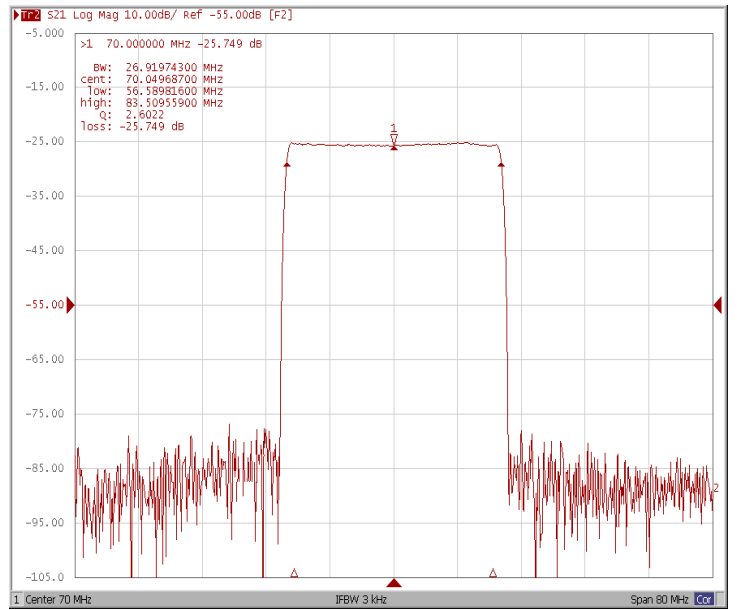
Frequency Characteristics

Frequency Response

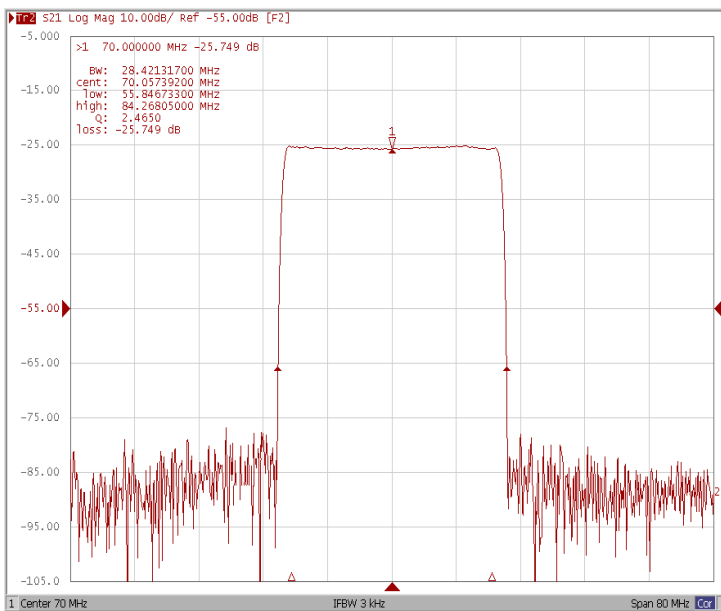
Bandwidth at -1.0 dB



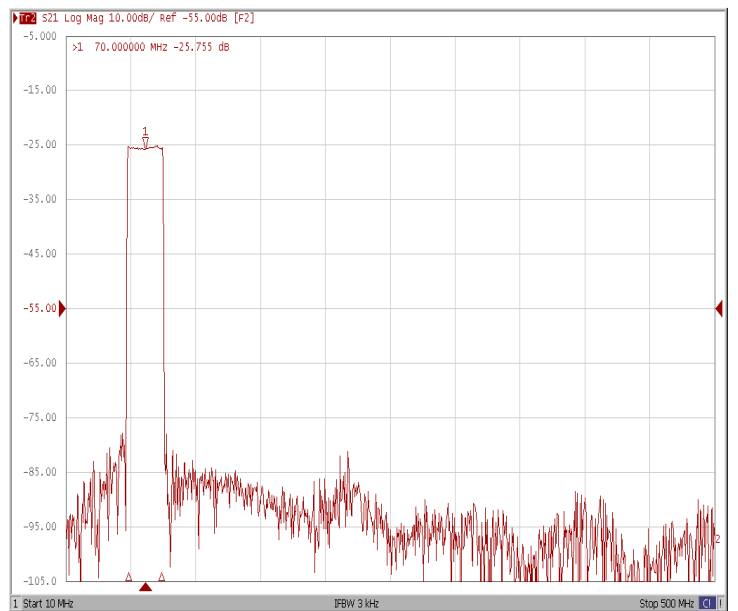
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



Wide Band

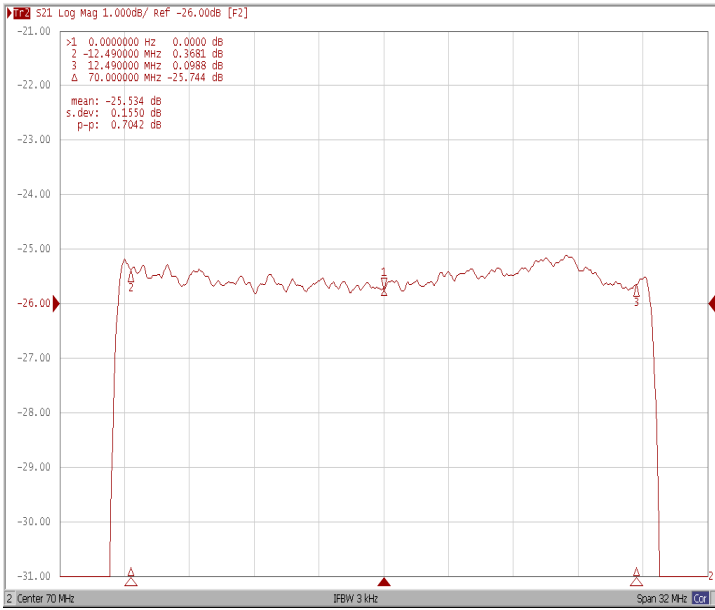




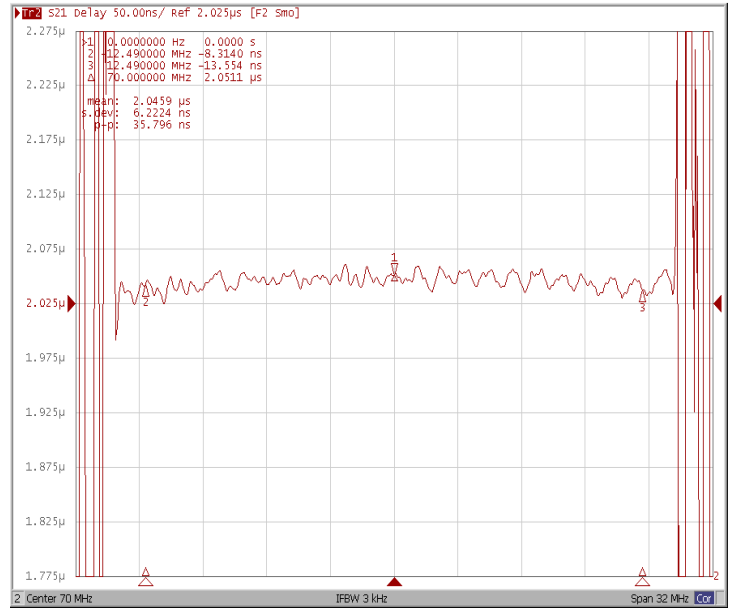
Frequency Characteristics

Frequency Response

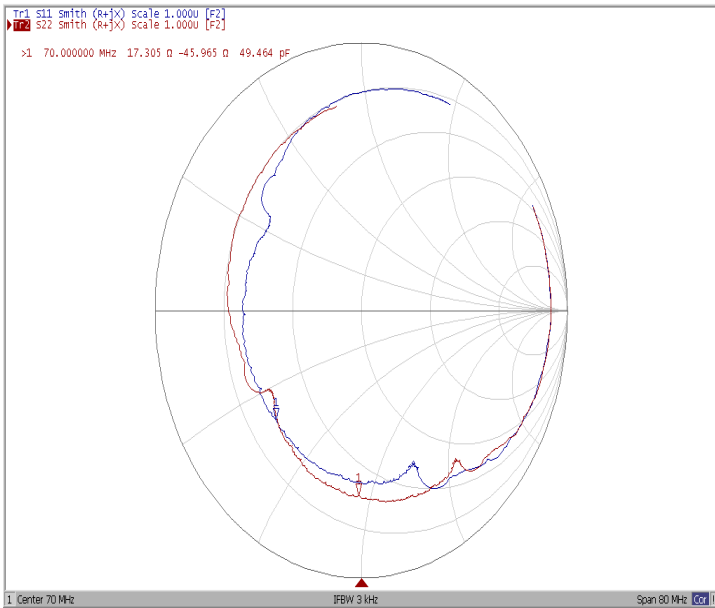
Ripple Variation



Group Delay Variation



Smith Chart



VSWR

