

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	85
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

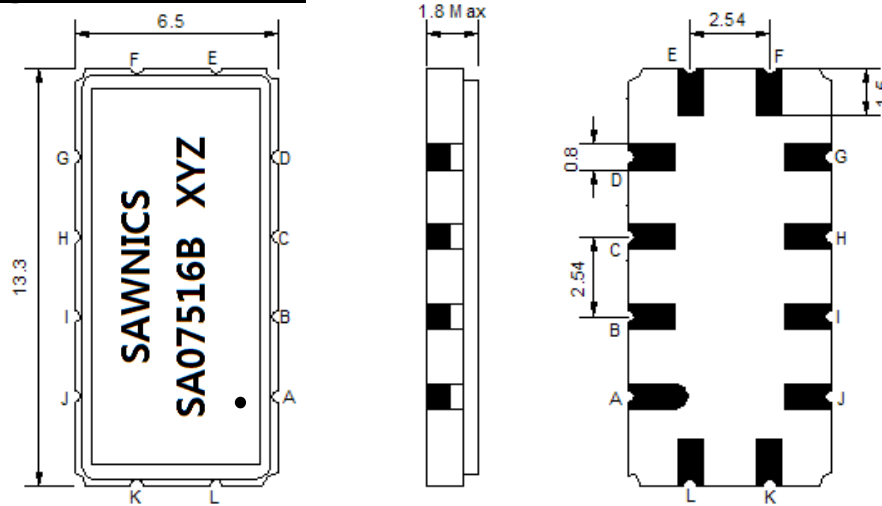
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	74.80	-
Insertion Loss at Fo	dB	-	22.50	24.00
Group Delay Variation at Fo ± 7.70 MHz	nsec	-	34	60
Absolute Delay at Fo	usec	-	1.40	1.45
Passband Ripple Variation at Fo ± 7.70 MHz	dB	-	0.45	0.90
Bandwidth at -1dB	MHz	16.65	16.78	-
Bandwidth at -3dB	MHz	-	17.55	-
Bandwidth at -40dB	MHz	-	20.43	20.70
Ultimate Rejection	dB	50	53	-
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.

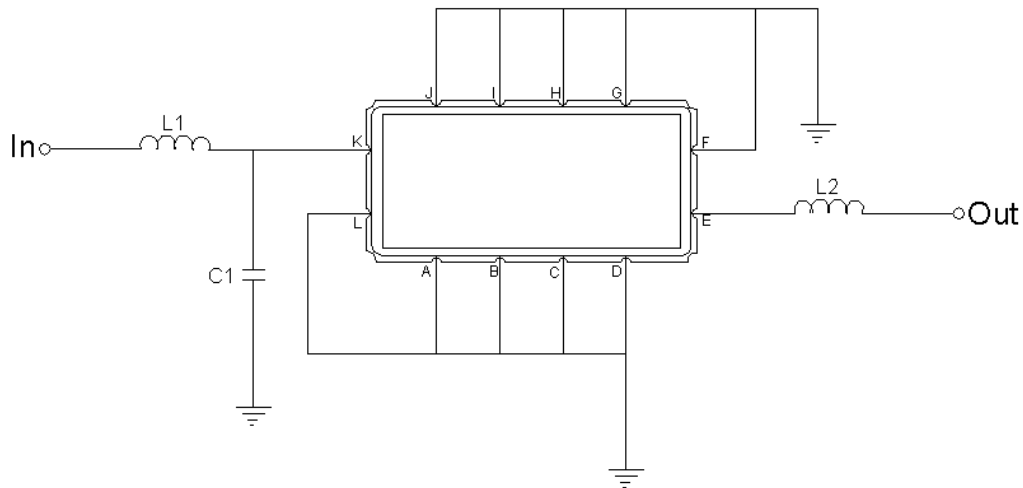
Package Dimensions



- ① SAWNICS: Brand
- ② SA07516B: 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



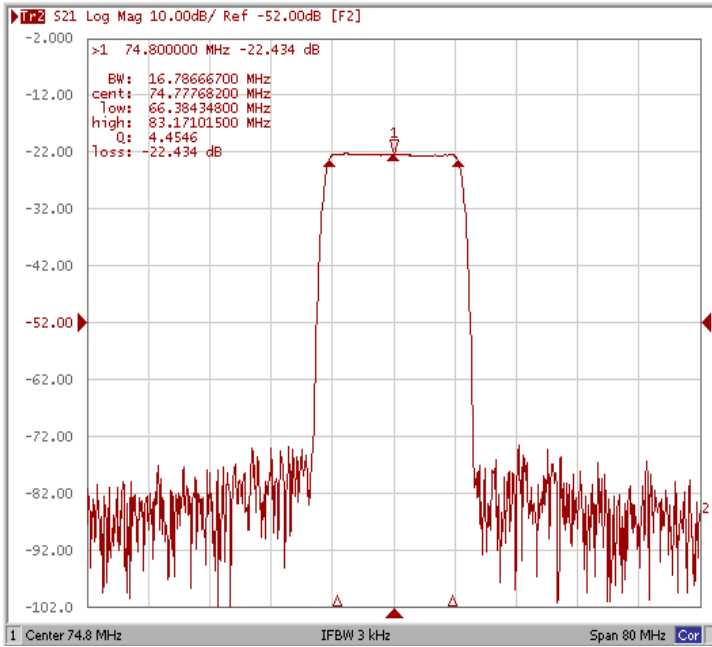
Test Fixture & Values	
Input	L1 = 180nH, C1=11pF
Output	L2 = 150nH
Source/Load Impedance	50 Ω

Frequency Characteristics

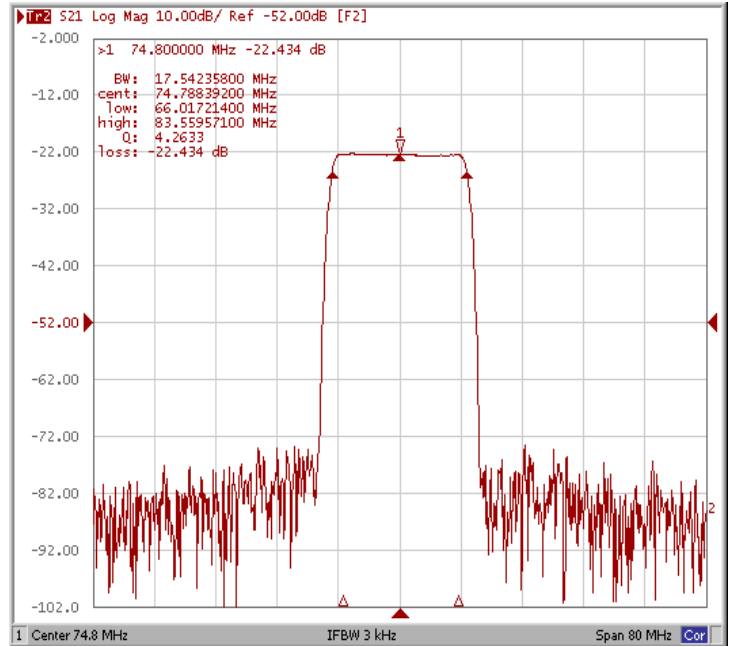
Frequency Response

Operating Temperature : +25 °C

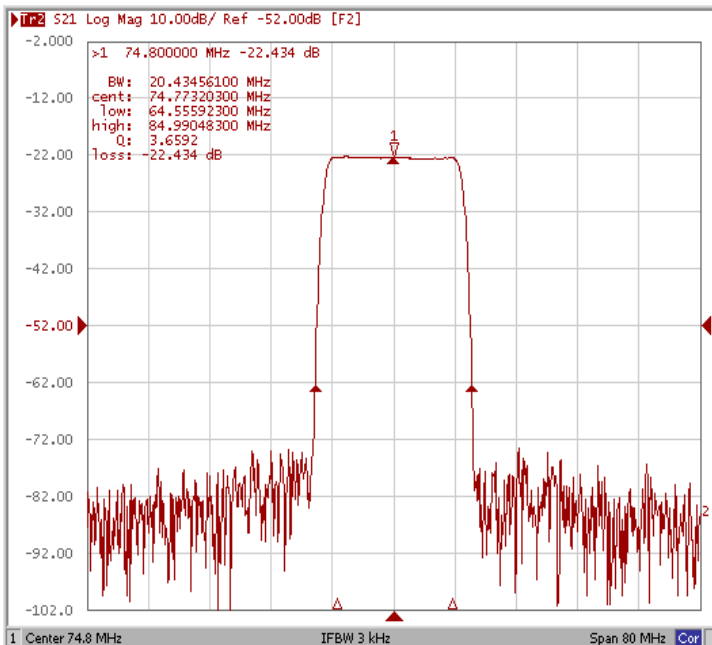
Bandwidth at -1.0 dB



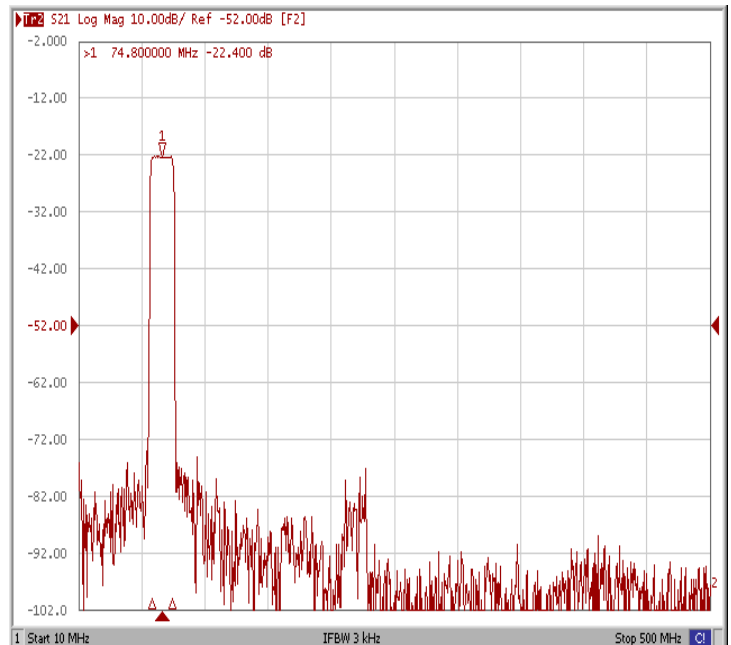
Bandwidth at -3.0 dB



Bandwidth at -40 dB

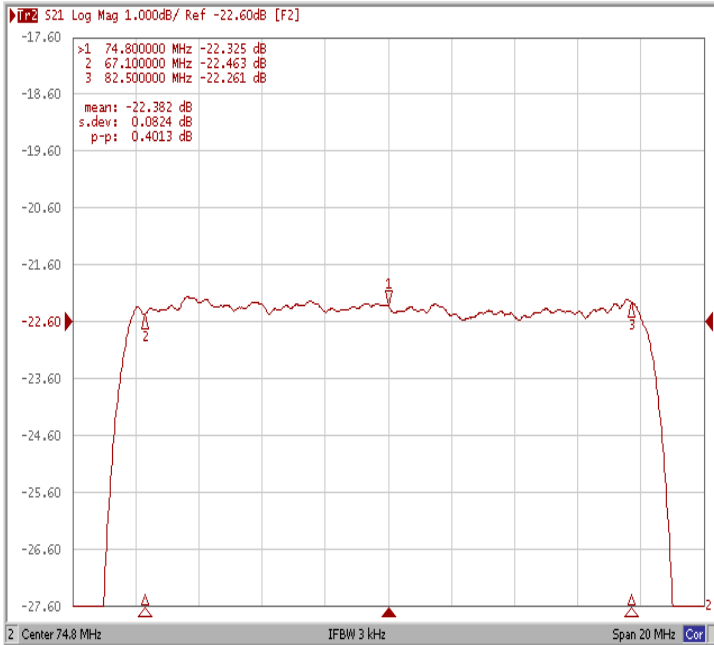


Wide Band

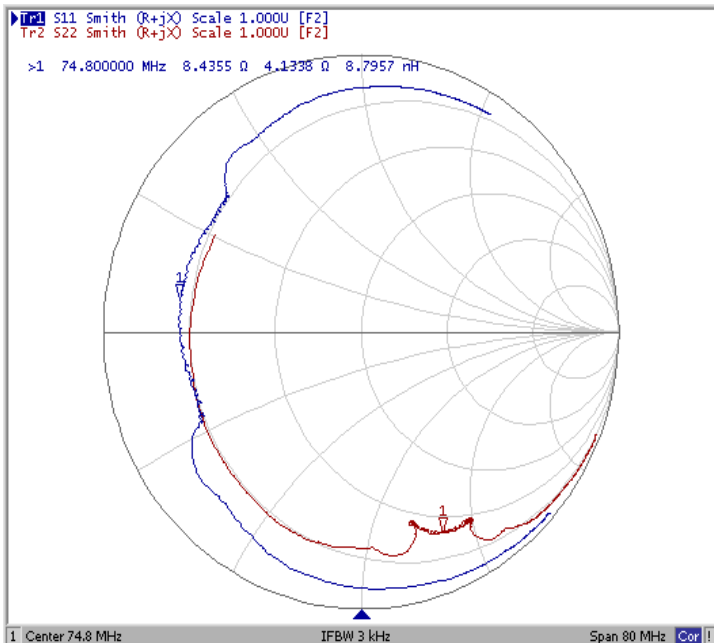


Frequency Response

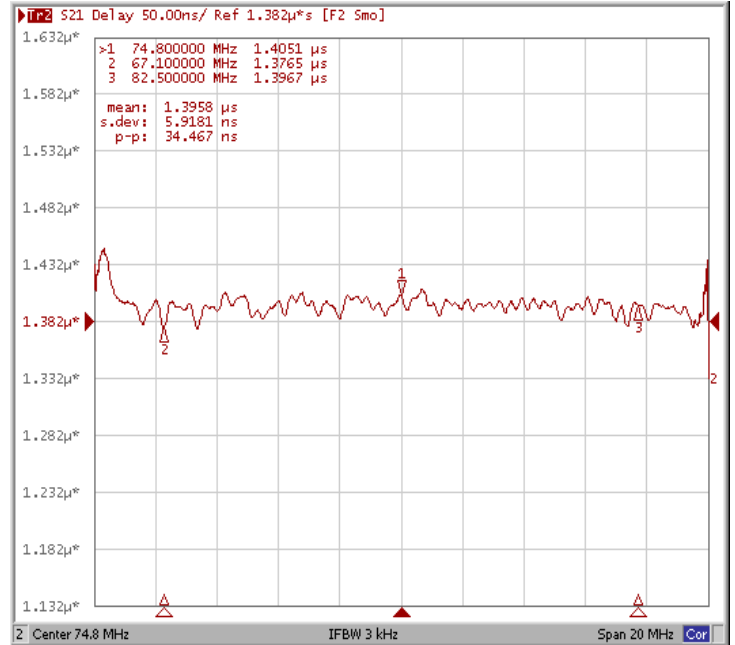
Ripple Variation $F_o \pm 7.70\text{MHz}$



Smith Chart



Group Delay Variation $F_o \pm 7.70\text{MHz}$



VSWR

