

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-	25	-
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

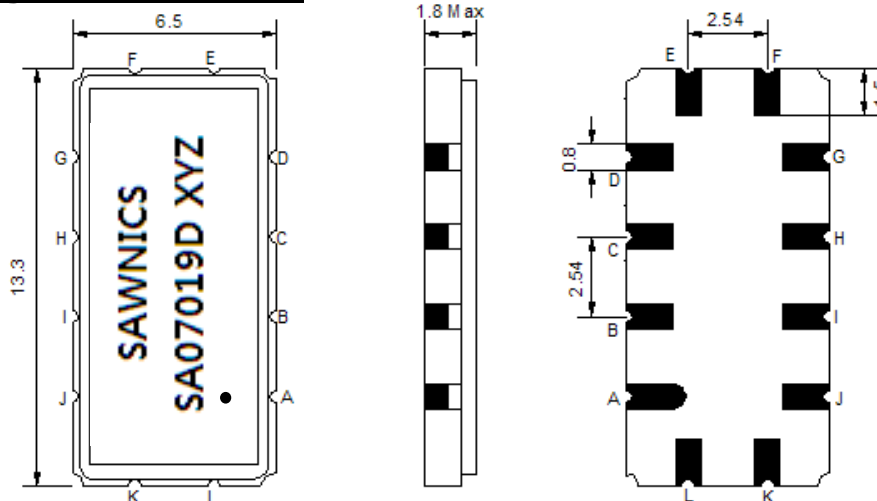
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	70.0	-
Insertion Loss at Fo	dB	-	12.5	15.0
Bandwidth at -1.0 dB	MHz	19.00	19.48	-
Bandwidth at -3.0 dB	MHz	-	20.05	-
Bandwidth at -40.0 dB	MHz	-	23.00	23.25
Amplitude Ripple(Fo ±9.375 MHz)	dB _{p-p}	-	0.79	1.00
Group Delay Variation (Fo ±9.375 MHz)	nsec	-	48	80
Absolute Delay at Fo	µsec	-	1.15	-
Ultimate Rejection	dB	40	43	-
Relative Attenuation:				
Fc +10.8 MHz	dB	15	15	
Fc -10.8 MHz	dB	15	18	-
Temperature Coefficient of Frequency(TCF)	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.

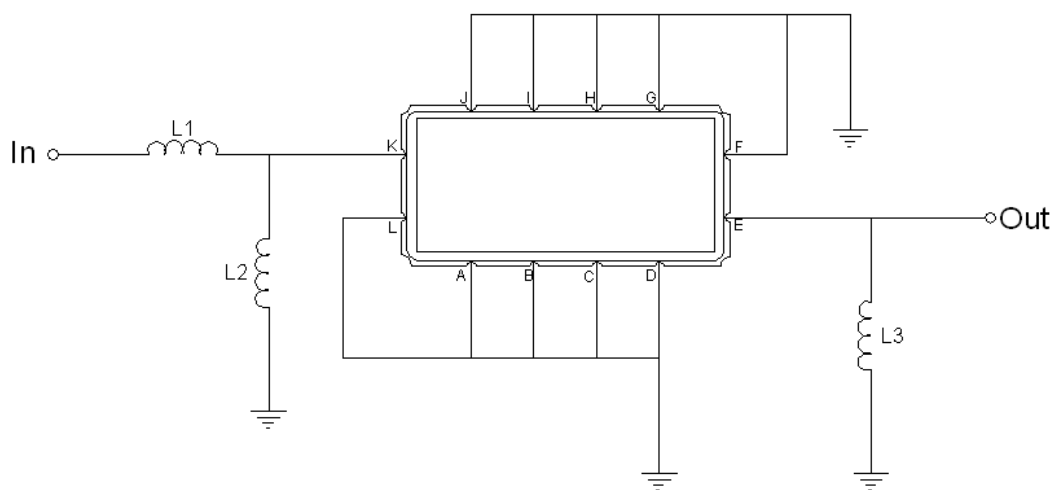
Package Dimensions



- ① SAWNICS: Brand
- ② SA07019D: 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

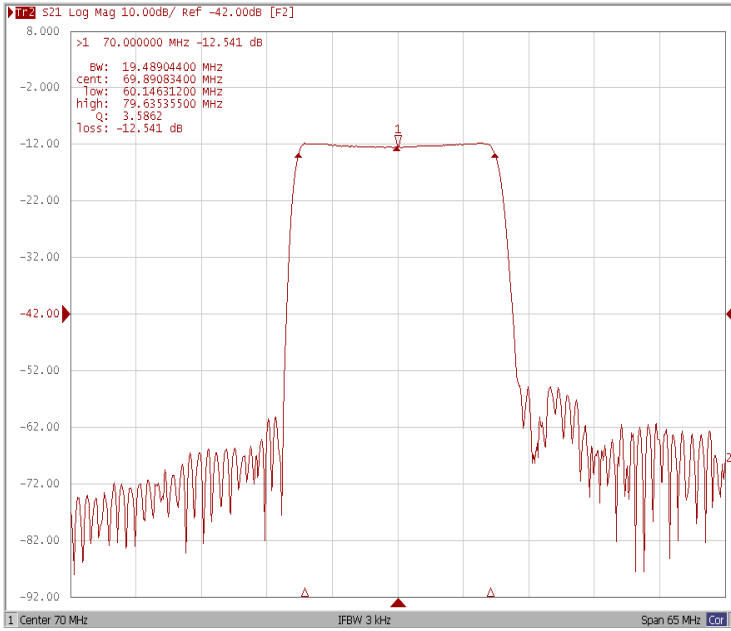
Testing Environment



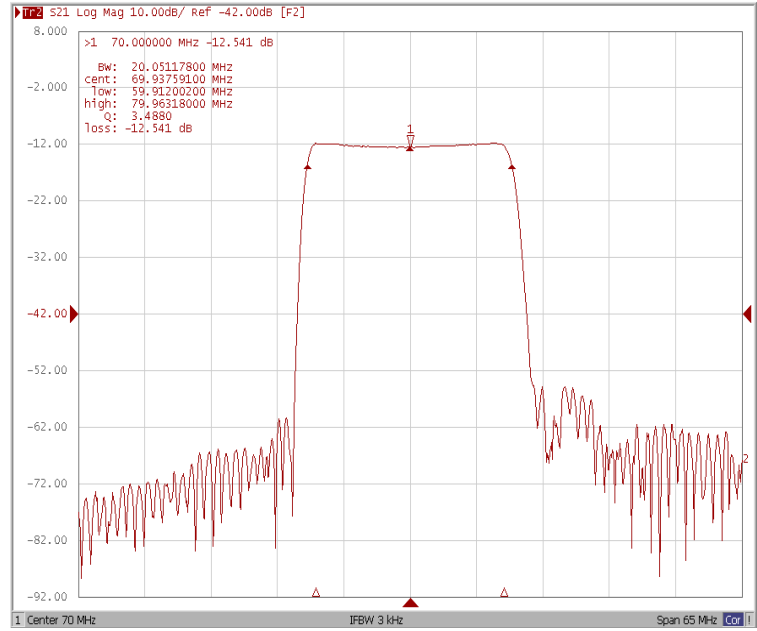
Test Fixture & Values	
Input	L1=22nH , L2=82nH
Output	L3=100nH
Source/Load Impedance	50 Ω

Frequency Response

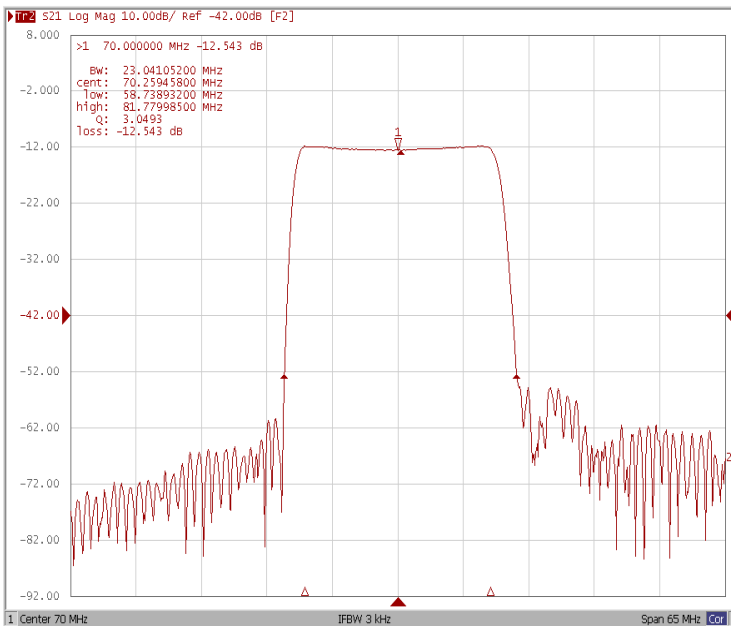
Bandwidth at -1.0 dB



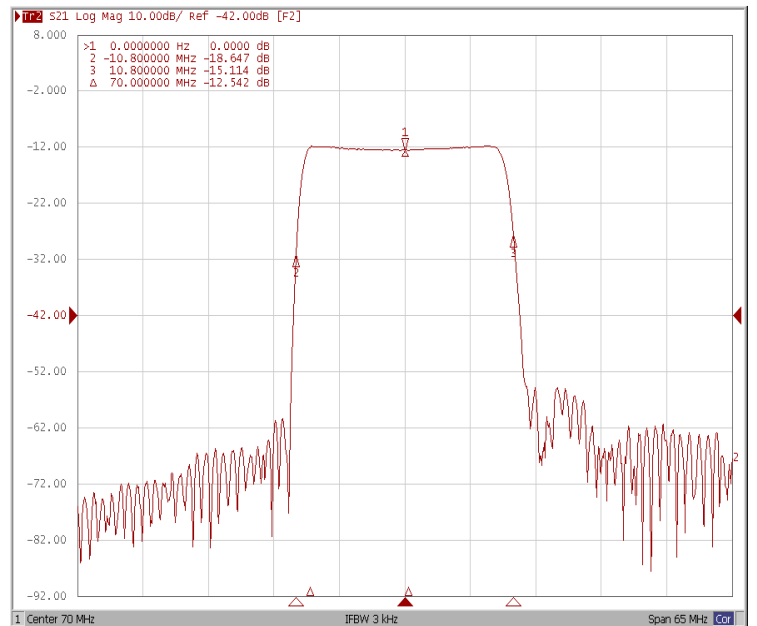
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

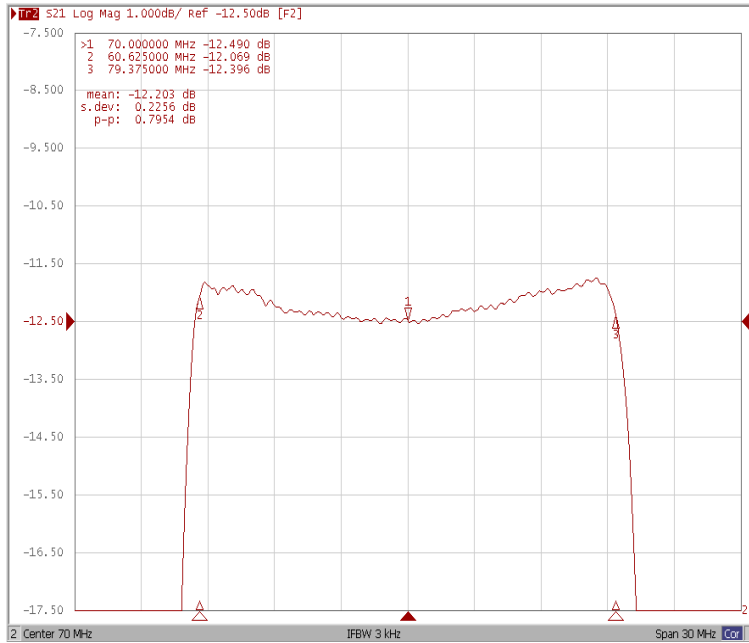


Relative Attenuation $F_{0\pm 10.8\text{MHz}}$

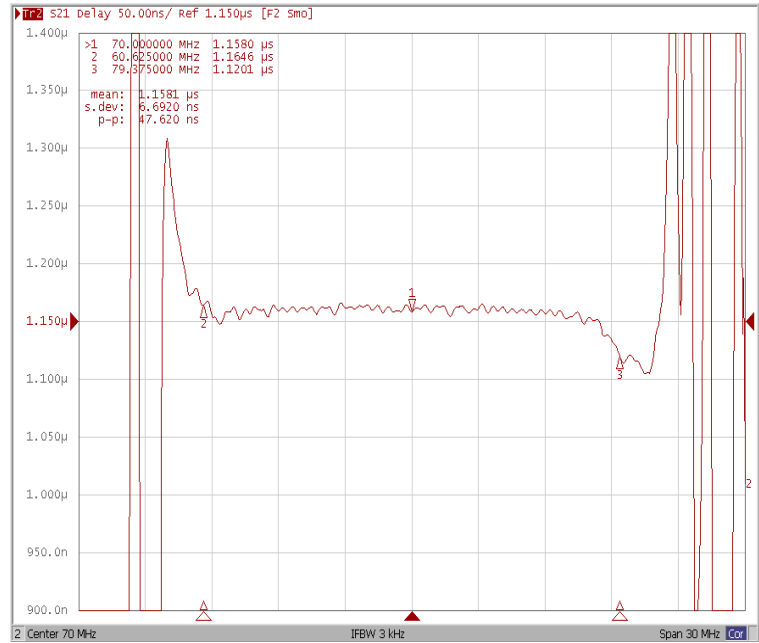


Frequency Response

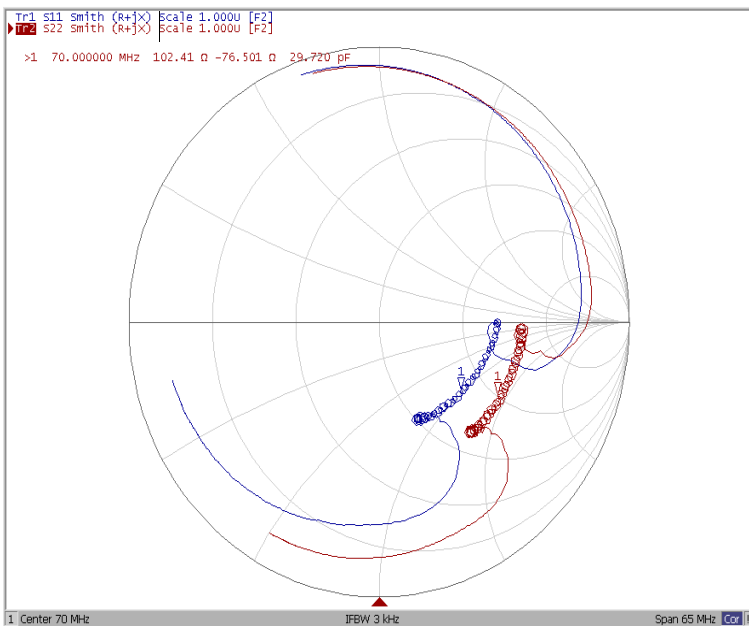
Ripple Variation Fo±9.375MHz



Group Delay Variation Fo±9.375MHz



Smith Chart



VSWR

