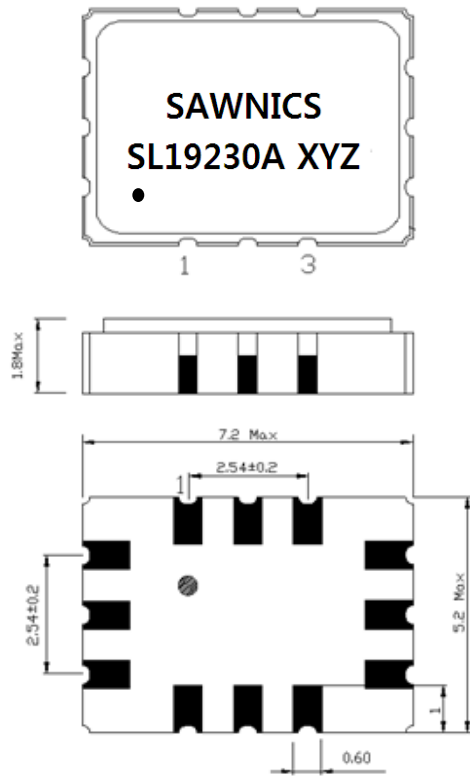


PRELIMINARY INFORMATION

FS-192B33.pdf
tolerance / limit

Data		typ. value				
Insertion loss (reference level)		a_e	13.0 dB		max.	15.0 dB
Nominal frequency		f_N	-			192,0 MHz
Centre frequency		f_C	192 MHz			-
Passband		PB	-		$f_N \pm 15$	MHz
Pass band ripple		p-p	0,45 dB		max.	1 dB
Amplitude ripple over any 200kHz of the PB		p-p	0.3 dB		max.	0,4 dB
Bandwidth		BW				
1	dB		33.65 dB		min.	33.5 MHz
40	dB		39.70 dB		max.	42 MHz
Relative attenuation		arel				
f_N	... $f_N \pm 15$	MHz	0,45 dB		max.	1 dB
$f_N \pm 18$	MHz ... $f_N \pm 21$	MHz	5.5 dB		min.	3 dB
$f_N - 90$	MHz ... $f_N - 24$	MHz	45 dB		min.	40 dB
$f_N + 36$	MHz ... $f_N + 90$	MHz	45 dB		min.	40 dB
Group delay			0,73 us		max.	1 us
Group delay ripple within PB		p-p	30 ns		max.	80 ns
Group delay ripple over any 200kHz of the PB		p-p	25 ns		max.	35 ns
Return loss			10		min.	7 dB
Input power level			-		max.	18 dBm
Operating temperature range		OTR	-			- 40 °C ... + 85 °C
Storage temperature range			-			- 40 °C ... + 85 °C
Temperature coefficient of frequency		TCf **	-86 ppm/K			-

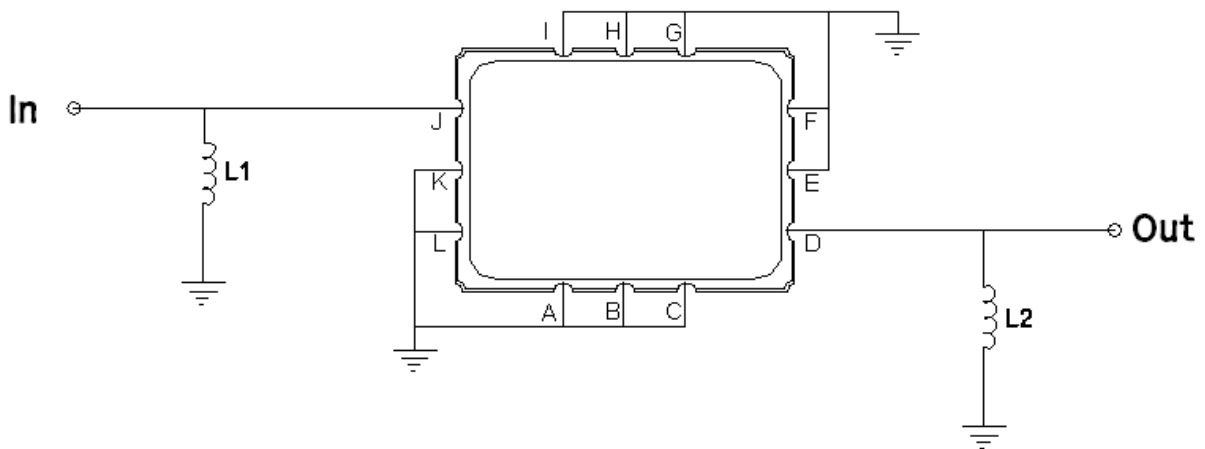
Package Dimensions



Pin Description	
A,B,C,E,F,G,H,I,K,L	Ground
J	Input +
L	Input – or Ground
D	Output +
F	Output – or Ground

- ① SAWNICS: Brand
- ② SL19230A: Model Name
- ③ X : Date Code (Year)
- ④ Y : Date Code (Month)
- ⑤ Z : Date Code (Date)
- : Index Dot

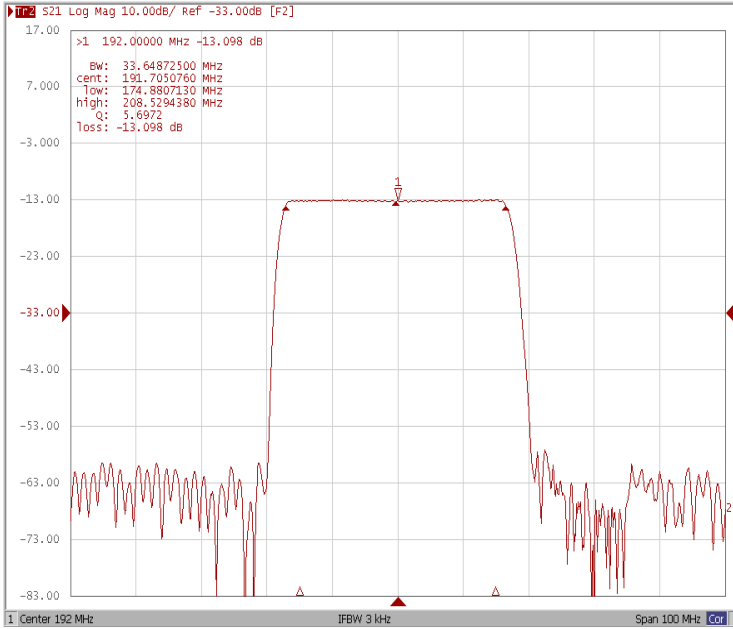
Testing Environment



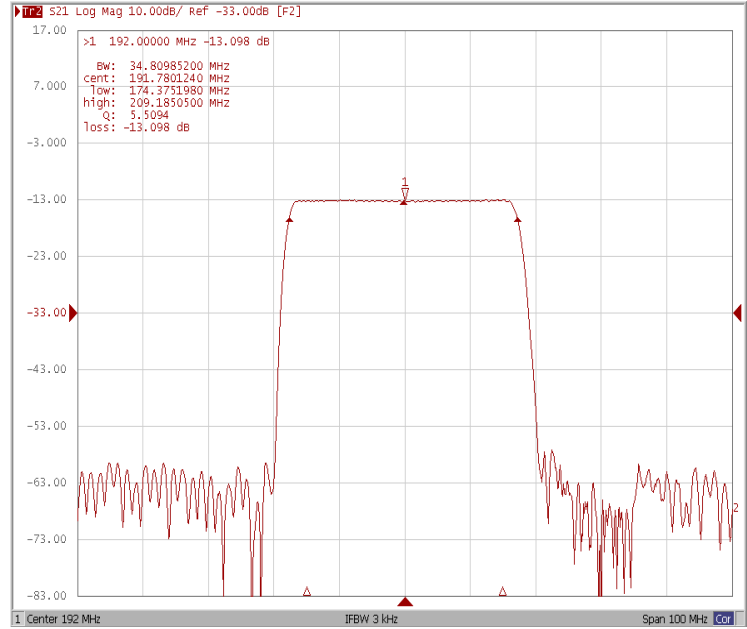
Test Fixture & Values	
Input	L1=33 nH
Output	L2=33 nH
Source/Load Impedance	50 Ω

Frequency Response

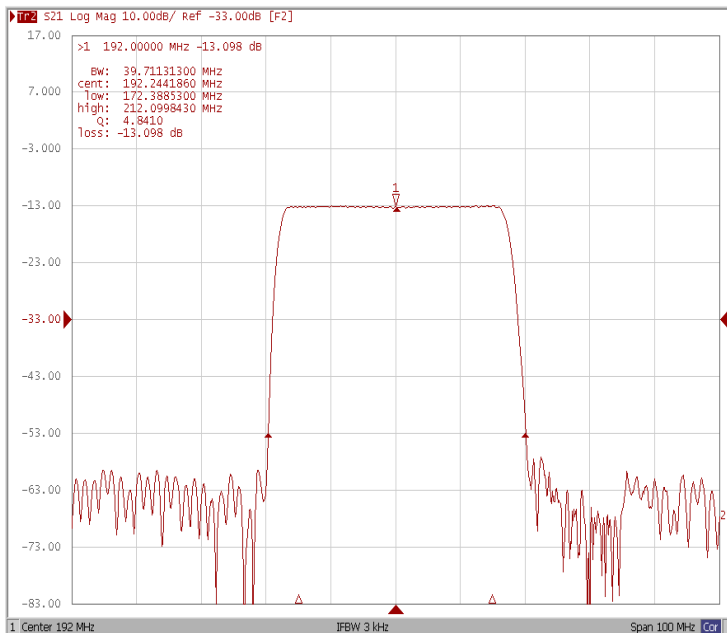
Bandwidth at -1.0 dB



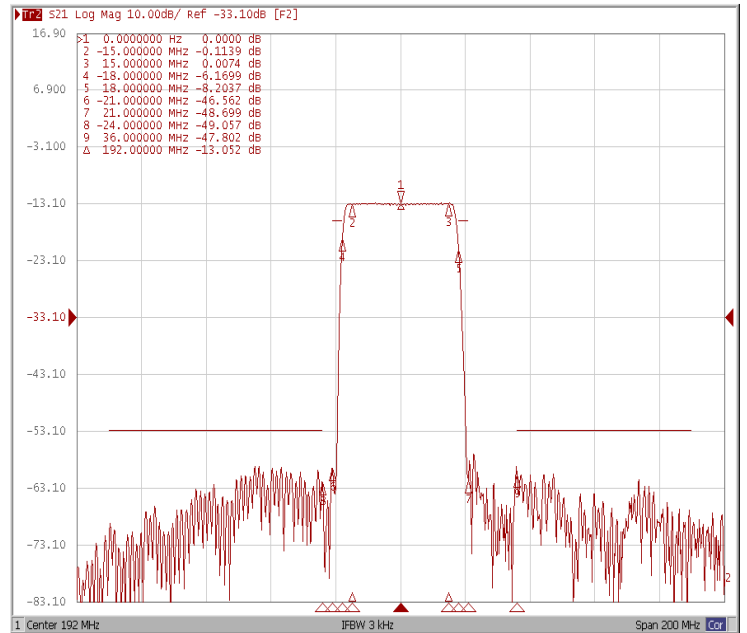
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

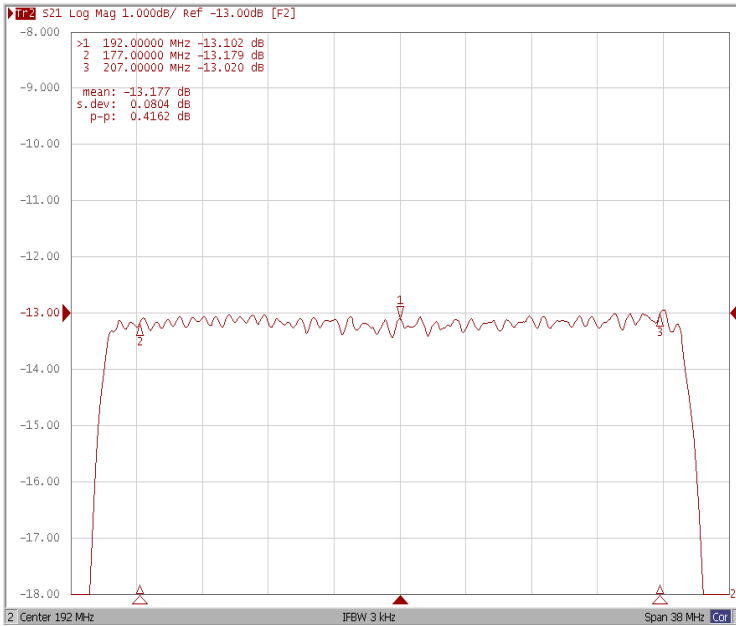


Relative Attenuation

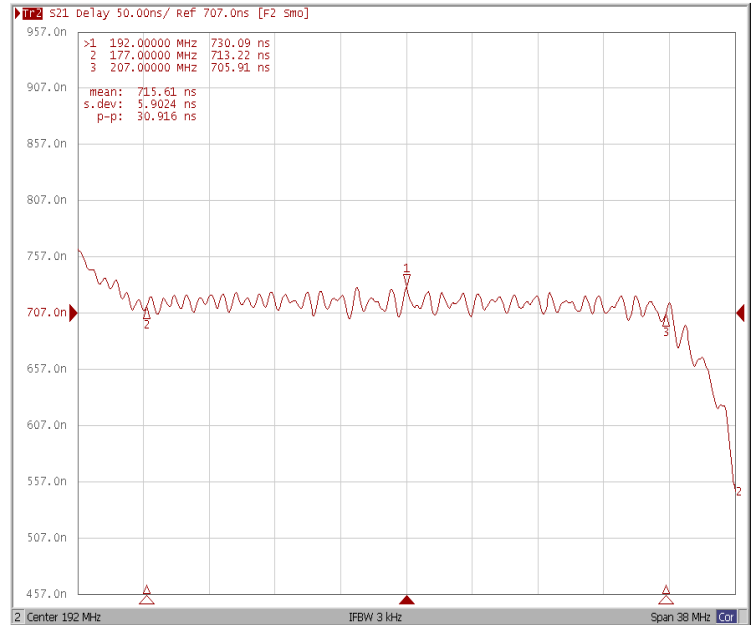


Frequency Response

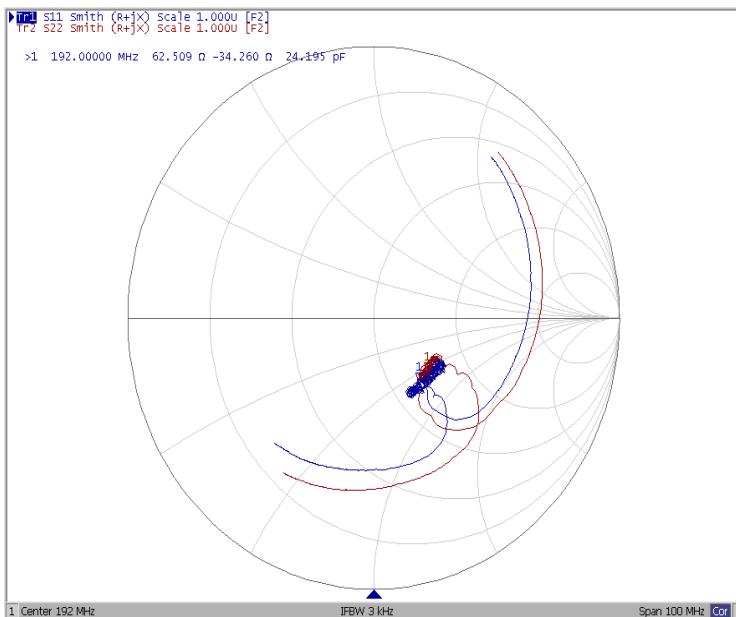
Ripple Variation at Fo ±15.0MHz



Ripple Variation at Fo ±15.0MHz



Smith Chart



Return Loss

