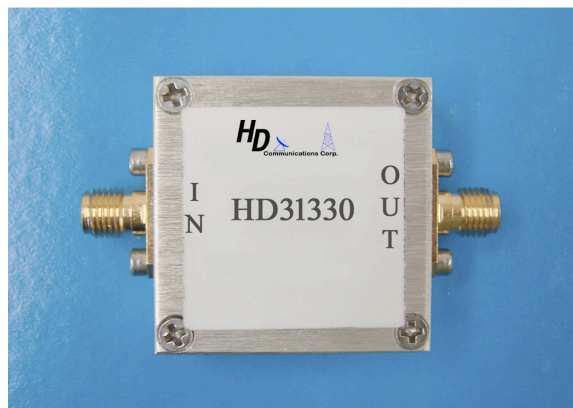


Features

- Center Frequency: 315MHz
- Bandwidth: ± 1 MHz
- Insertion Loss: 3dB
- Input/Output Impedance: 50Ω
- Maximum Input Power: +10dBm
- SAW Technology
- SMA Connector



Description

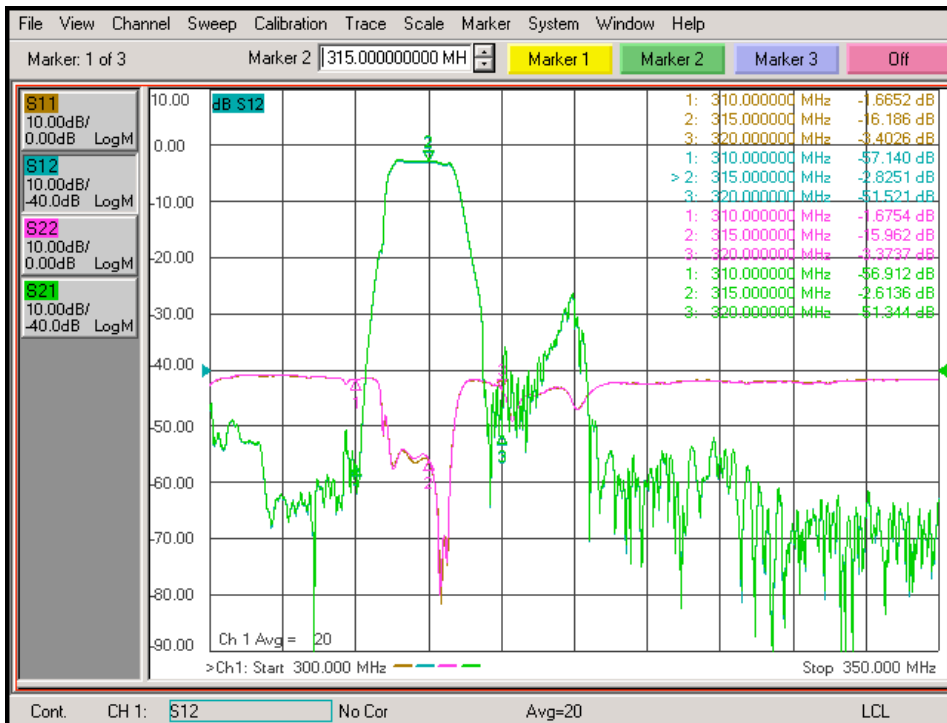
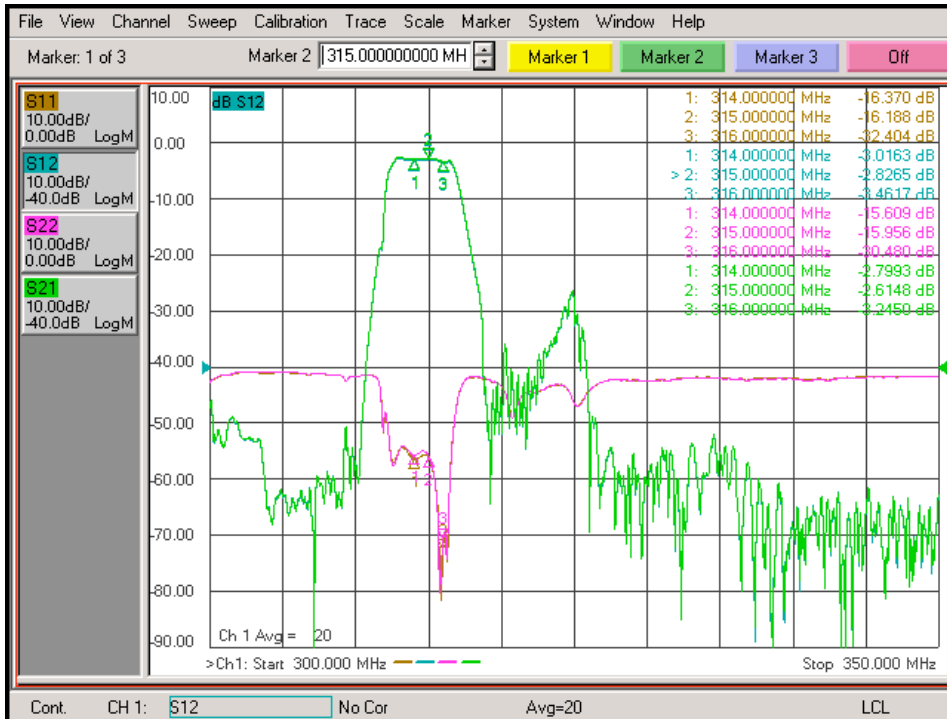
HD31330 is a 314-316MHz SAW Band Pass Filter for 315MHz Fixed/Mobile or IF application.

Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \Omega$

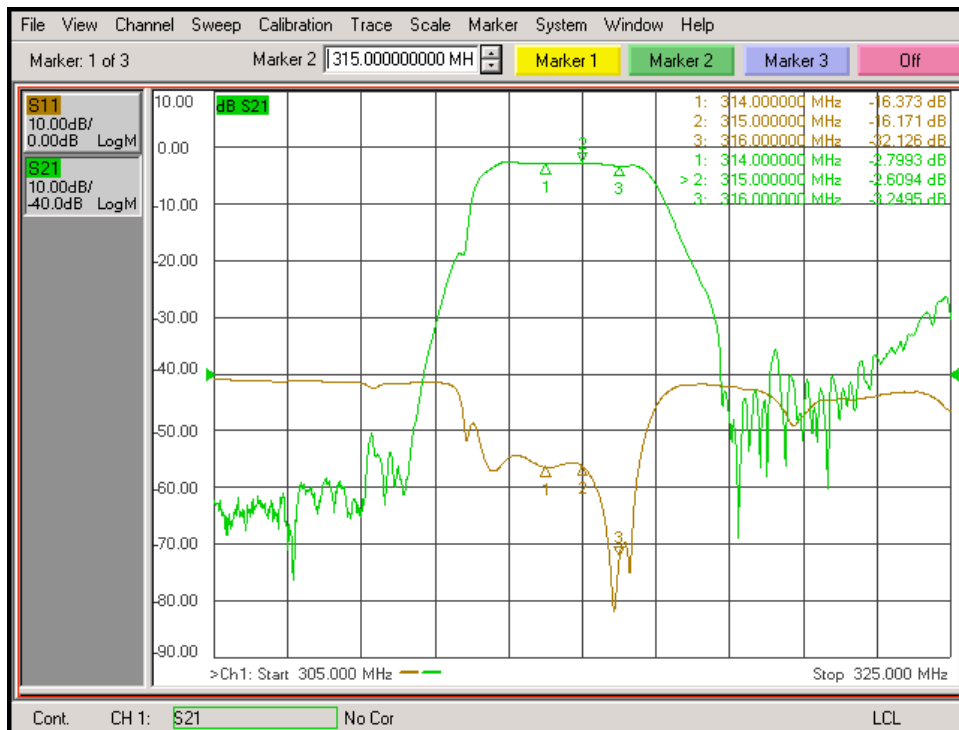
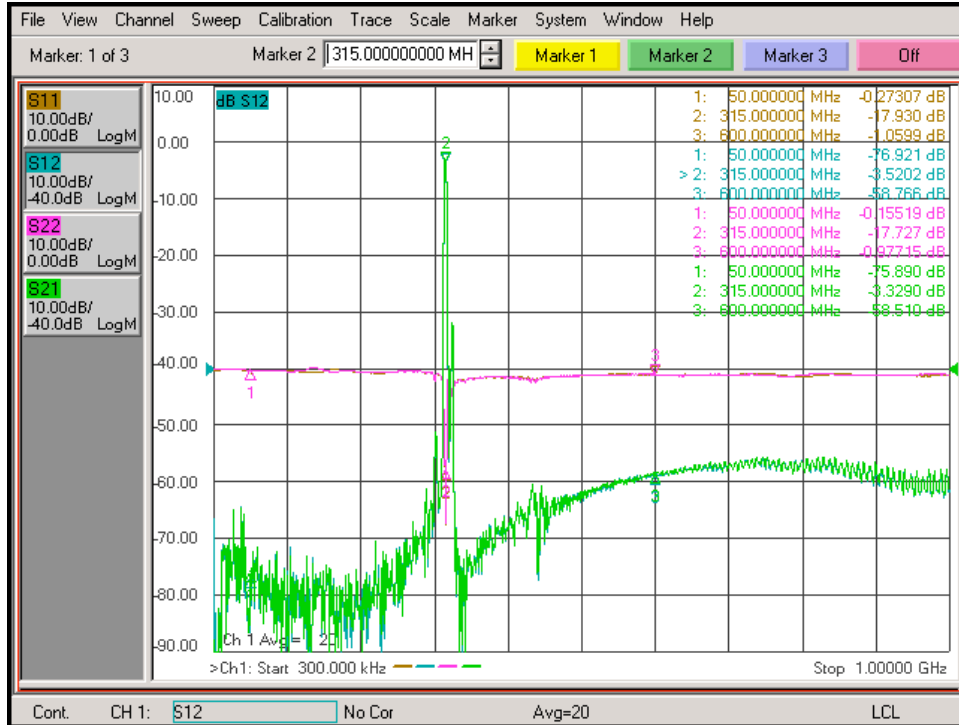
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	314		316
Center Frequency	MHz		315	
Insertion Loss	dB		3	4
Rejection at 310MHz	dB	45	53	
Rejection at 320MHz	dB	35	45	
Maximum Input Power	dBm			+10
Maximum Input DC Voltage	V			0
Input/output impedance	Ω		50	
Group Delay	ns		230	
Group Delay Ripple	ns		± 5	
VSWR				
Input VSWR			1:1.5	
Output VSWR			1:1.5	
Size (excluding SMA connectors)	inch	1.25" x 1.25" x 0.56"		
Weight	oz	1.5		

Note: Input and output ports are interchangeable

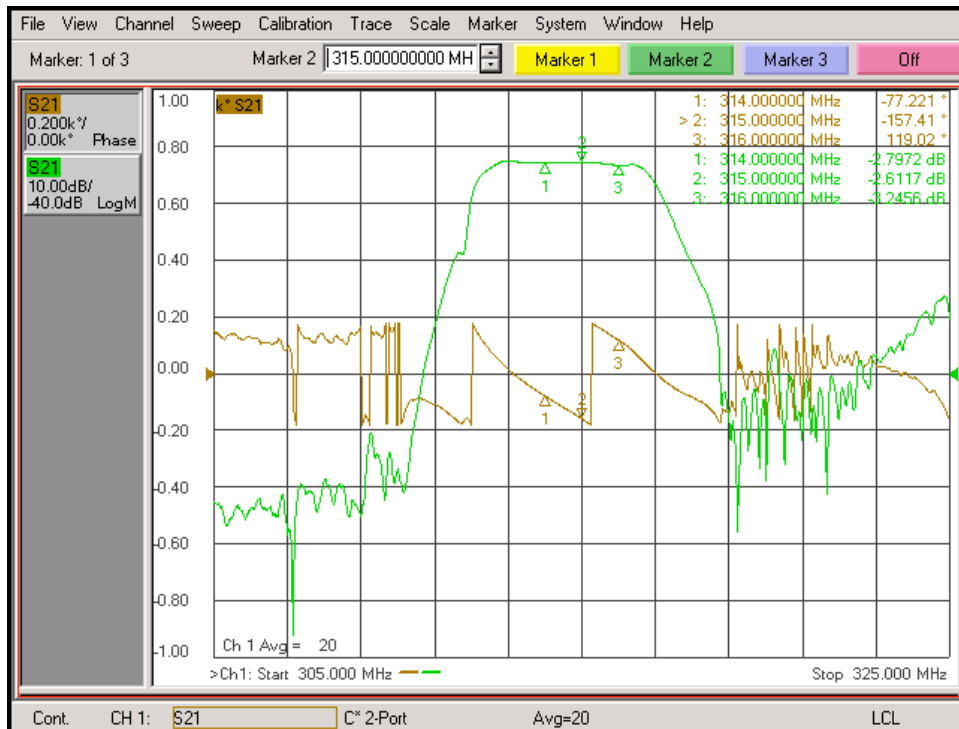
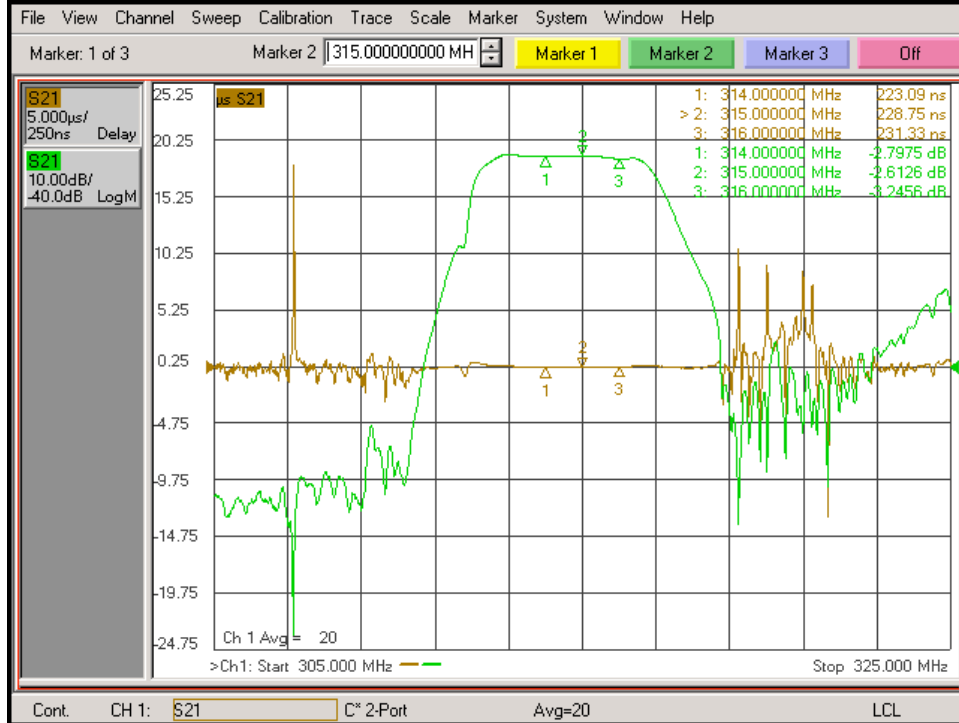
Insertion Loss and Rejection:



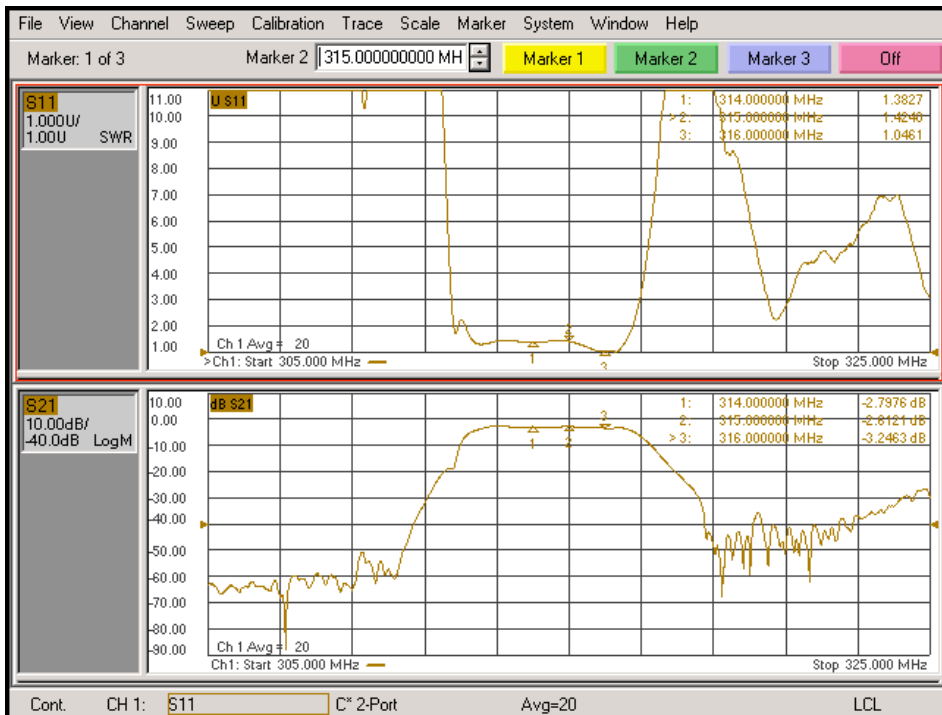
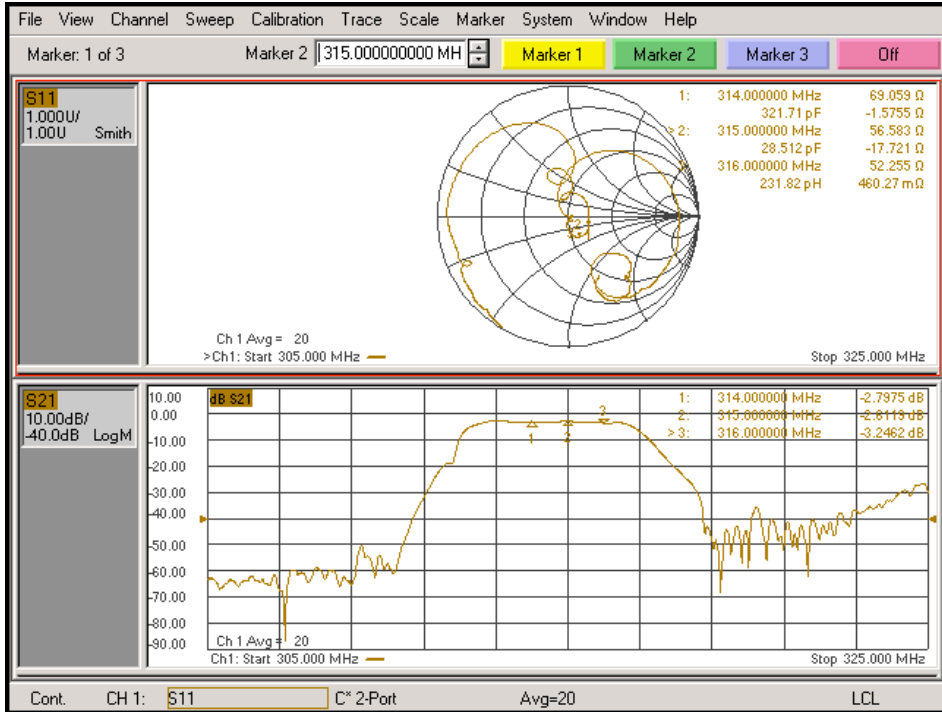
Insertion Loss and Rejection:



Delay and Phase:



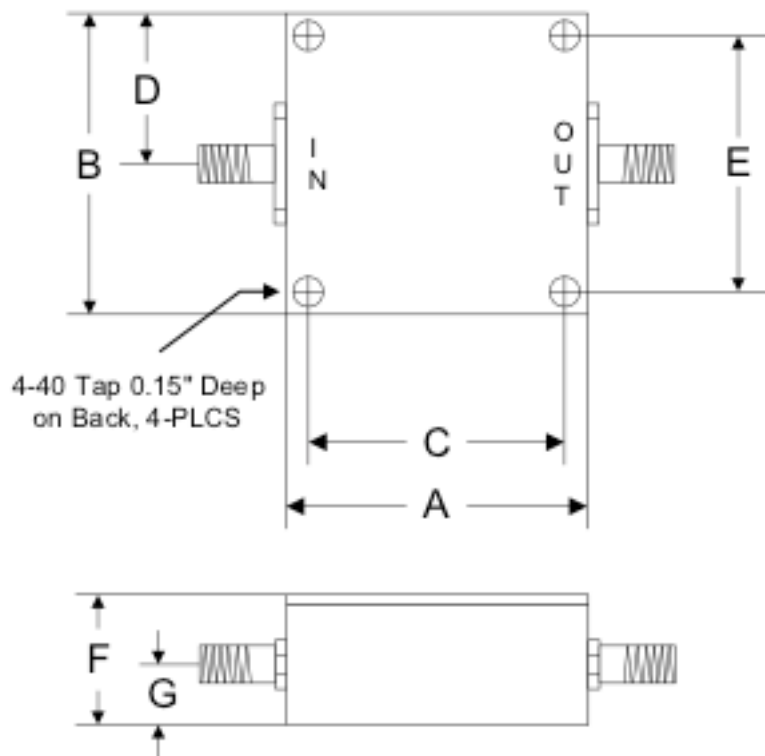
Smith Chart and VSWR:



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
DC Input Voltage	0V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °C

Outline



	A	B	C	D	E	F	G
Inch	1.250	1.250	1.000	0.625	1.000	0.563	0.250
mm	31.75	31.75	25.40	15.88	25.40	14.29	6.35