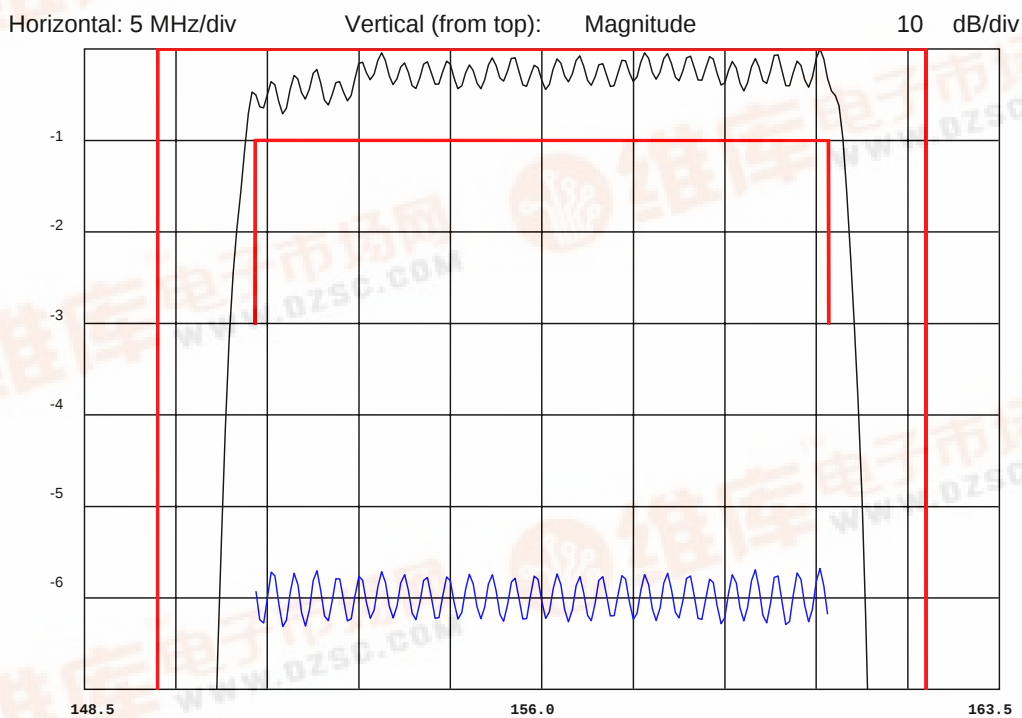
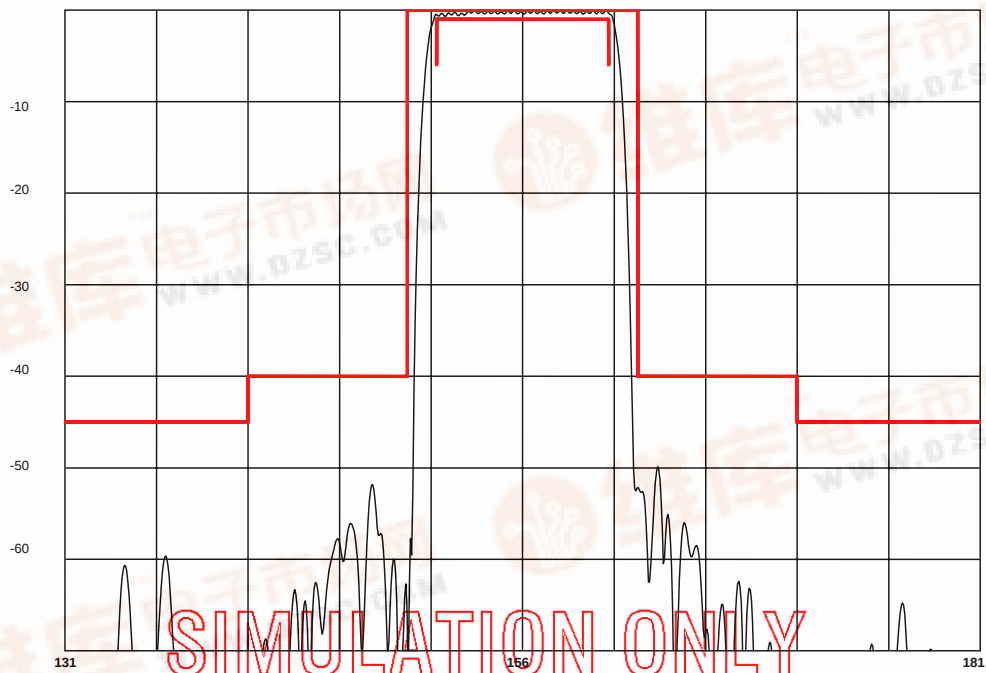


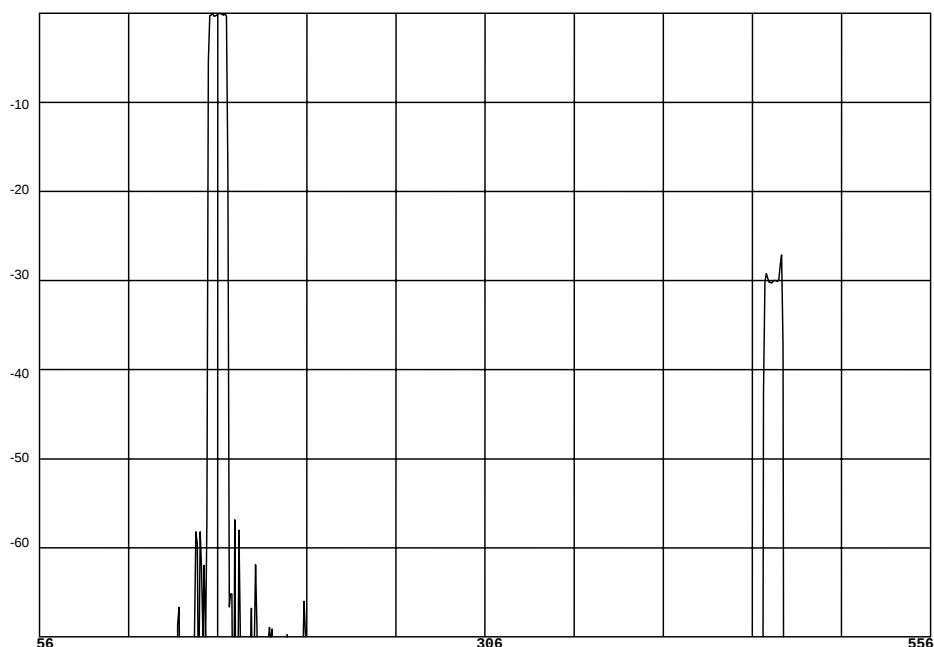


**Integrated
Circuit
Systems, Inc.**

**156.00 MHz Bandpass Filter
9.4 MHz bandwidth
Part Number SF0156BA02421S**

TYPICAL PERFORMANCE





Horizontal: 50 MHz/div

Vertical (from top):

Magnitude

10 dB/div

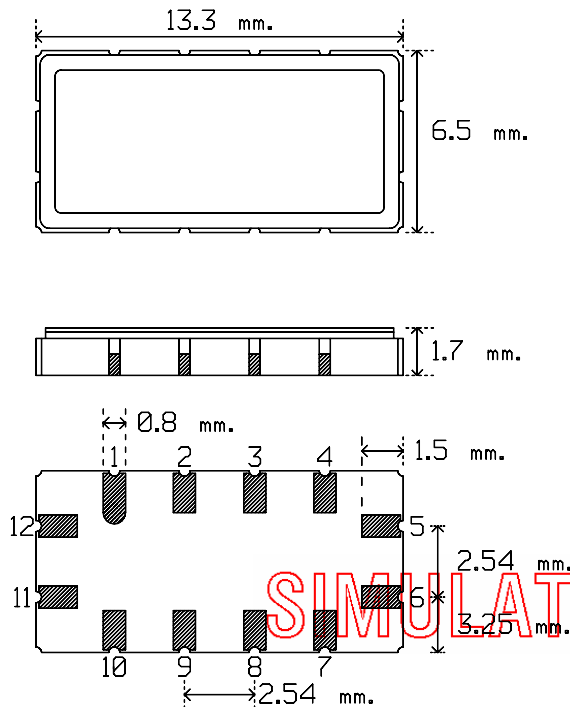
SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹		156.00		MHz
Minimum Insertion Loss ²		20.6	22.0	dB
1 dB Bandwidth	9.40			MHz
Amplitude Variation (151.3 to 160.7 MHz)			1.0	dB p-p
Group Delay Ripple (151.3 to 160.7 MHz)			150	ns p-p
Relative Attenuation at 141.0 MHz	45			dB
Relative Attenuation at 149.7 MHz	40			dB
Relative Attenuation at 162.3 MHz	40			dB
Relative Attenuation at 171.0 MHz	45			dB
Ultimate Rejection	50			dB
Source and Load Impedance		50		Ω
Input Power		+10		dBm
Operating Temperature Range	-10	23	65	$^{\circ}$ C

- Notes:
1. Average of the lower and upper 3 dB band edge frequencies.
 2. All dB values are referenced to the insertion loss.
 3. Specifications are valid for a temperature of 23C.



PACKAGE OUTLINE



Units: mm

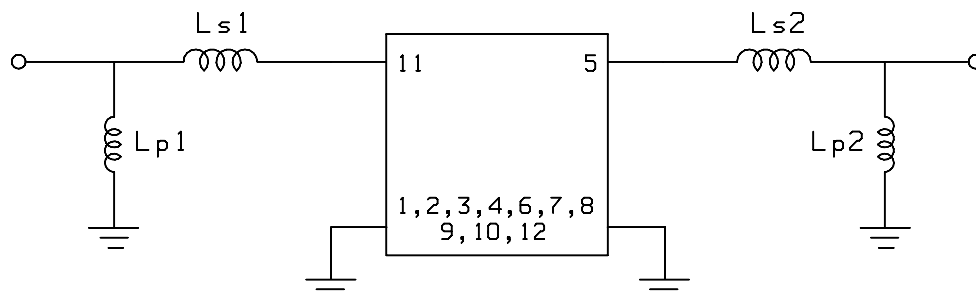
Pin Configuration:

Input: 11

Output: 5

Ground: 1,2,3,4,6,7,8,9,10,12

MATCHING CIRCUIT



Typical component values:

Ls1 = 33 nH

Lp1 = 15 nH

Ls2 = 33 nH

Lp2 = 22 nH

(Minimum inductor Q = 40)

Notes

- Maximum 2% tolerance matching components shall be used.
- Tuning values shown are for reference only. Optimum values may change depending upon board layout.

ISO 9001
Registered