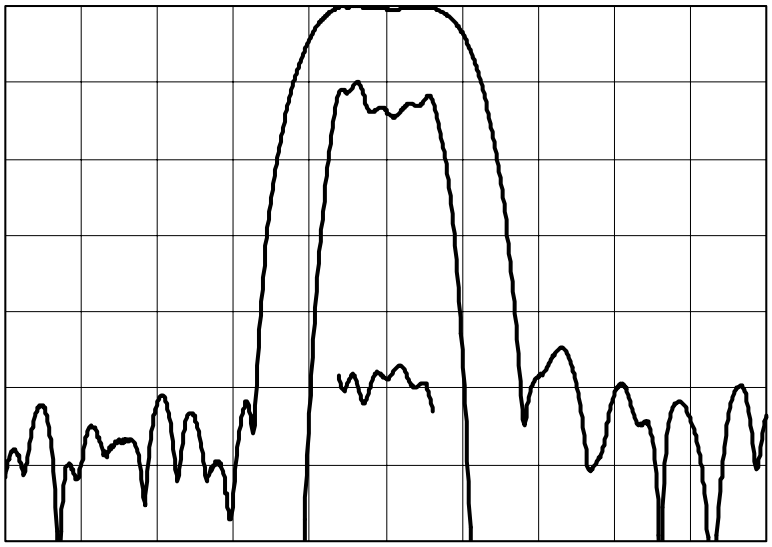
Integrated Circuit Systems, Inc.

350 MHz Filter
1.6 MHz Bandwidth
Part Number
SF0350CD03091S

TYPICAL PERFORMANCE



Horizontal: 1 MHz/div

Vertical (from top):

Magnitude	10	dB/div
Magnitude	1	dB/div
Phase Deviation	4	deg/div

SPECIFICATION

Parameter	Min	Typ	Max	Units
Insertion Loss at 350 MHz		14.4	16.5	dB
Center Frequency, F_C [1]	349.9	350	350.1	MHz
1 dB Bandwidth [2]		1.6		MHz
Attenuation at 350 ± 1.25 MHz [2]	6	9.5		dB
Attenuation at 350 ± 2.25 MHz [2]	35	45		dB
Stopband Rejection, 50 – 347 MHz [2]	42	50		dB
Stopband Rejection, 353 – 500 MHz [2]	42	48		dB
Return Loss at Input and Output, 350 ± 0.625 MHz [3]	10	15		dB
Passband Amplitude Variation, 350 ± 0.625 MHz [4]		0.5	0.7	dB p-p
Phase Linearity, 350 ± 0.625 MHz		2.4	4.0	deg p-p
Source and Load Impedance		50		Ω
Operating Temperature Range	-10		+85	° C

Notes:
1. Defined as the arithmetic mean of the 10dB frequencies.
2. dB level is measured relative to the average level across the pass band, F_C ± 0.625 MHz.
3. When matched using external components as described below.
4. Excluding roll-off at the passband edges.

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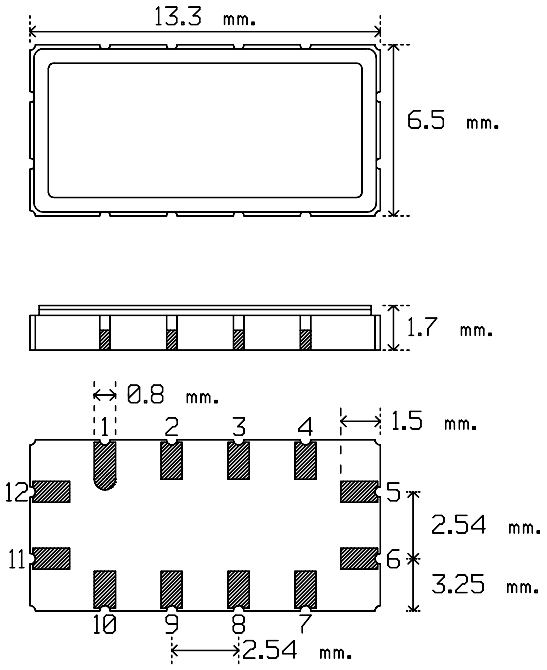
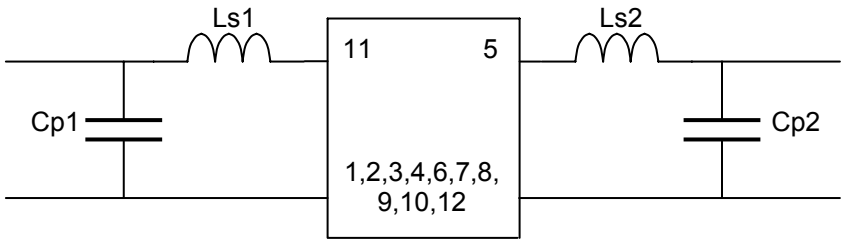
PACKAGE OUTLINE



Units:

Pin Configuration:
Input: 11
Output: 5
Ground: 1,2,3,4,6,7,8,9,10,12

MATCHING CIRCUIT



Typical component values used in the Integrated Circuit Systems test fixture:

Ls1 =	27 nH	Ls2 =	22 nH
Cp1 =	18 pF	Cp2 =	18 pF

Notes:
1. 2% components are recommended to ensure the return loss specification is met.
2. Component values may change depending on board layout.

ISO 9001
Registered

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