1285 MHz SAW Filter
10 MHz Bandwidth
Part Number SF1285HP13526S

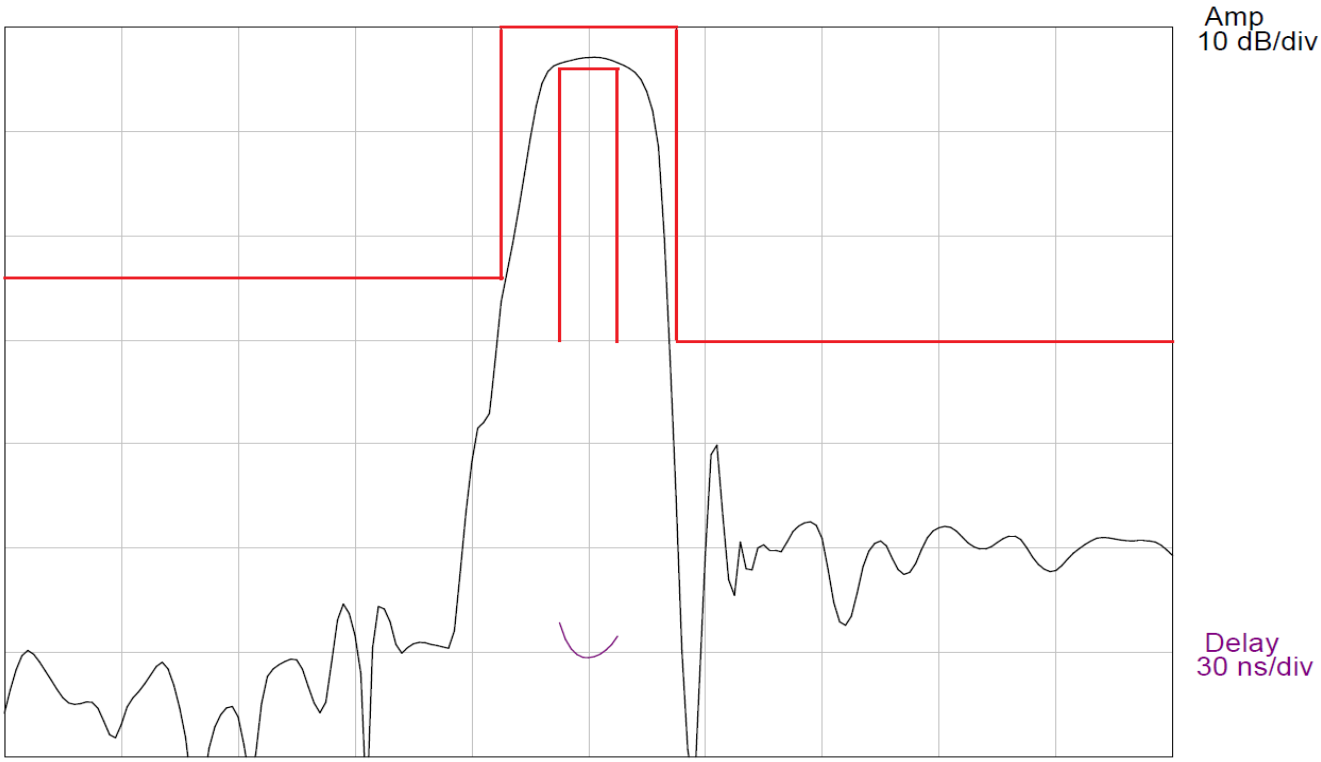
HIGH POWER SAW FILTER

DESCRIPTION

- 1285 MHz Filter with 10 MHz Bandwidth
- 3.8 x 3.8 mm Ceramic LCC Package, 6 Pads
- RoHS compliant

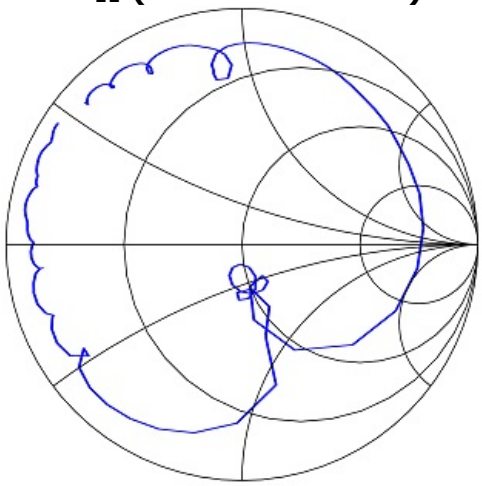
SIMULATION

TYPICAL PERFORMANCE

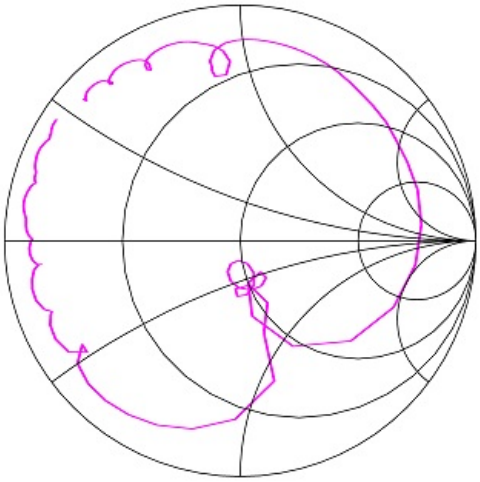


Center = 1285 MHz, 20 MHz/div (1000 kHz incr)

S_{11} (1185-1385 MHz)



S_{22} (1185-1385 MHz)



Spectrum Control, Inc.
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SPECIFICATION

Parameter	Min	Type	Max	Units
Minimum Insertion Loss	---	2.9	4	dB
Maximum In Band Insertion Loss	---	3.5	4	dB
Device Delay	---	0.056	---	µsec
Amplitude Ripple (1280-1290 MHz)	---	0.58	1	dB p-p
1 dB Bandwidth	10	13.45	---	MHz
Amplitude Limit Template[1]	---	0.47	---	dB
Group Delay Ripple (1280-1290 MHz)	---	10	30	ns p-p
Attenuation (10-1270 MHz)[1]	24	26	---	dB
Attenuation (1300-2000 MHz)[1]	30	40	---	dB
Input Return Loss (1280-1290 MHz)[2]	10	13.4	---	dB
Output Return Loss (1280-1290 MHz)[2]	10	13.4	---	dB
Material Temperature Coefficient		-40		ppm/˚C
Source and Load Impedance		50		ohms
Ambient Temperature		25		˚C

Notes: 1. Parameter value is referenced to the 0 dB absolute level.
2. Part is to operate in a 50 ohm single-ended system.

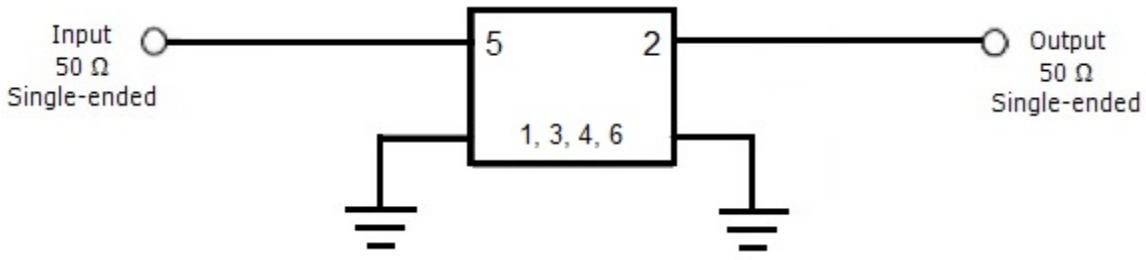
MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	˚C
Input Power Level	---	+24 **	dBm

** - To be verified

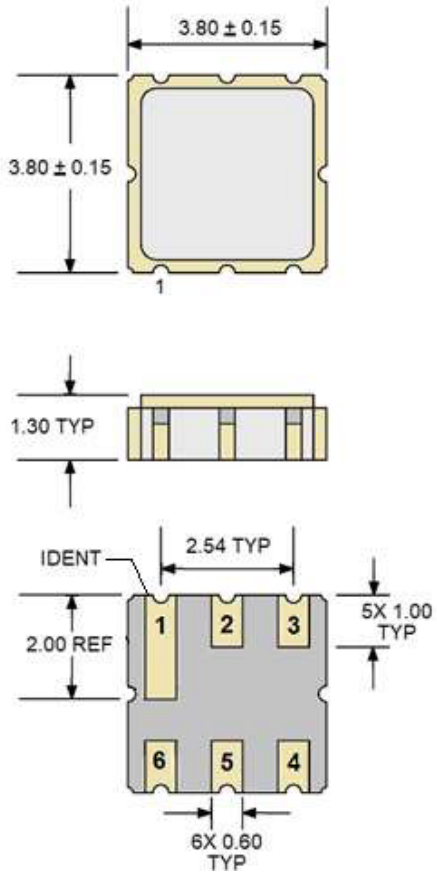
SIMULATION

CIRCUIT

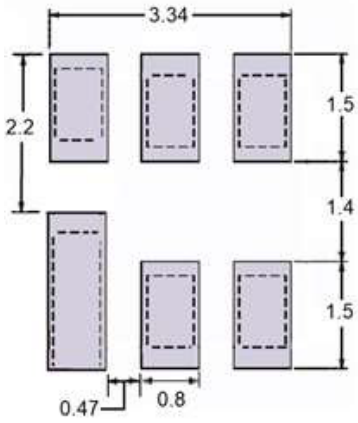


Notes:
1) Matching components are not required.
2) Recommended operation is in a 50 ohm system.

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



Units: mm

Typical tolerances are ±0.15 mm except where indicated.

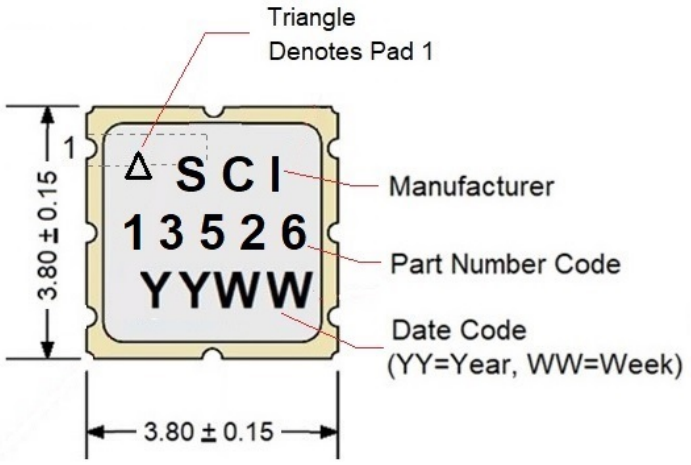
Pad Configuration:

Input:	5
Output:	2
Ground:	All other pads

Package Material:

Body: Al_2O_3 ceramic
Lid: Kovar, Ni plated
Terminations: Au plating 1 um min, over a 1.3-8.9 um Ni plating

MARKING



SIMULATION

ISO 9001 Registered

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