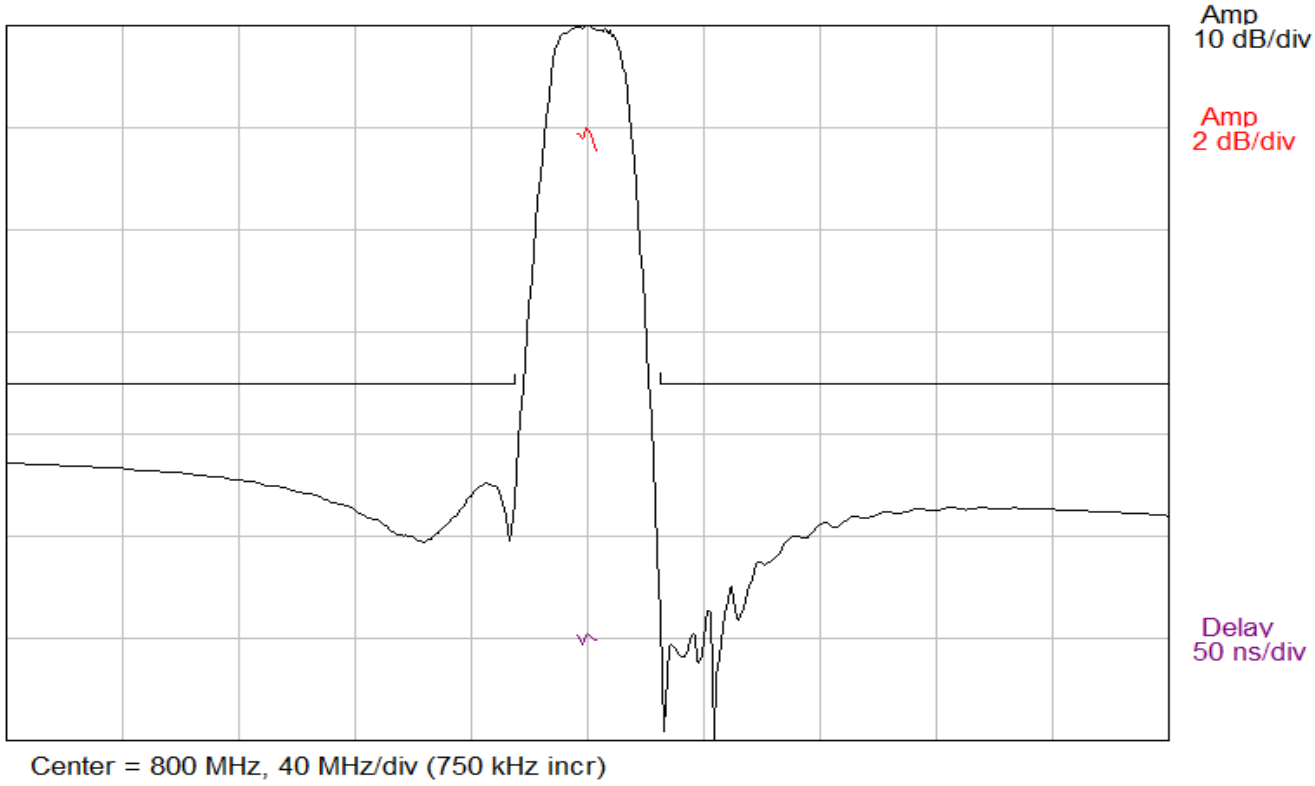
SF0802HP03520S

802.5 MHz SAW Filter
8 MHz Bandwidth

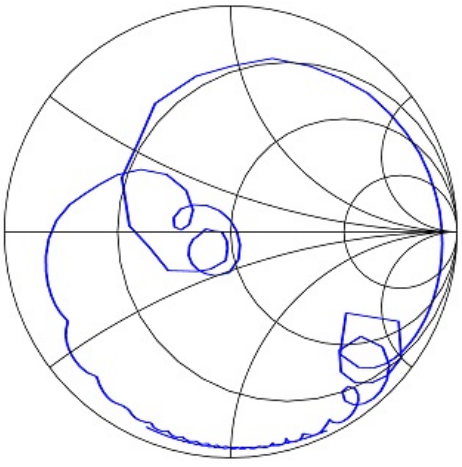
- 802.5 MHz Filter with 8 MHz Bandwidth
- 3.8 x 3.8 mm Ceramic LCC Package, 8 Pads
- RoHS compliant

SIMULATION

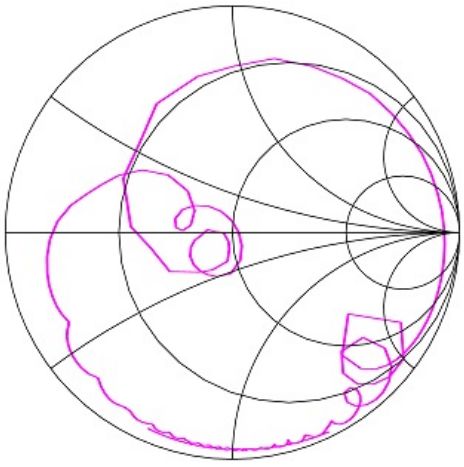
TYPICAL PERFORMANCE



S_{11} (602.5-1002.5 MHz)



S_{22} (602.5-1002.5 MHz)



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SPECIFICATION

Parameter	Min	Type	Max	Units
Minimum Insertion Loss[1]	---	2.12	3.8	dB
Device Delay	---	0.037	---	µsec
2 dB bandwidth[1]	7	21.17	---	MHz
Center frequency (Fc, 3 dB)[1]	---	799.87	---	MHz
3 dB Bandwidth[1]	8	23.15	---	MHz
Lower 40 dB Frequency[1]	775	777.65	---	MHz
Upper 40 dB frequency[1]	---	821.09	825	MHz
Amplitude Ripple (799-806 MHz)	---	0.44	2	dB p-p
Group Delay Ripple (799-806 MHz)	---	5	---	ns p-p
Rejection (600-778.5 MHz)[1]	35	42.9	---	dB
Rejection (825.5-1000 MHz)[1]	35	47.2	---	dB
Input Return Loss (799-806 MHz)[2]	8	13.1	---	dB
Output Return Loss (799-806 MHz)[2]	8	13.1	---	dB
Material Temperature Coefficient		-40		ppm/˚C
Source and Load Impedance		50		ohms
Ambient Temperature		25		˚C

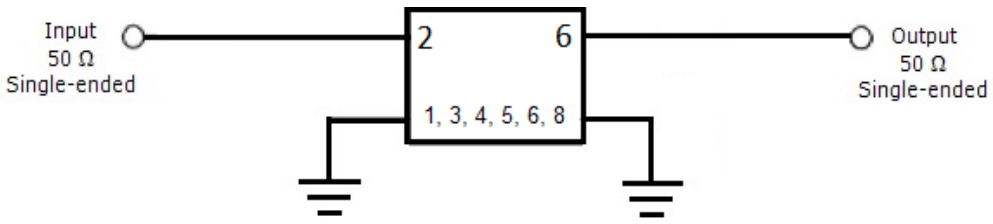
Notes: 1. Parameter value is referenced to the insertion loss value.
2. Part is to operate in a 50 ohm single-ended system.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-55	125	˚C
Input Power Level	+24	+33	dBm

CIRCUIT

SIMULATION



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

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SPECTRUM CONTROL

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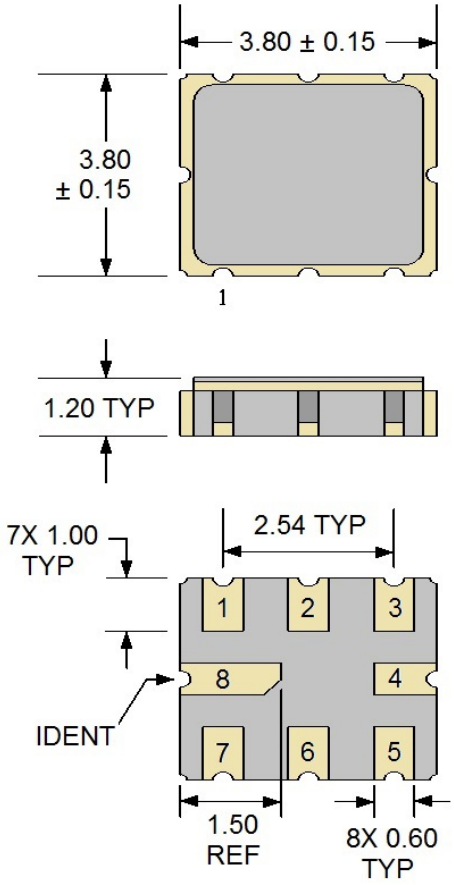
PACKAGE OUTLINE



Units: mm

Typical tolerances are ±0.15 mm except where indicated.

Pad Configuration:

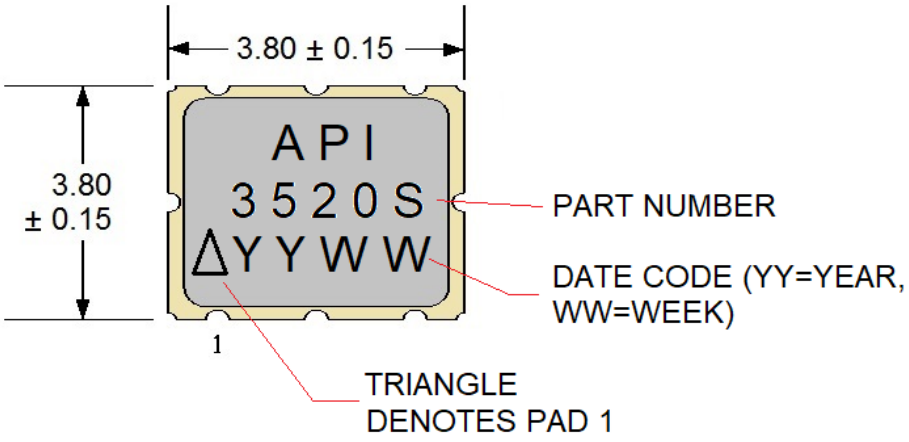
Input:	2
Output:	6
Ground:	All other pads

Package Material:

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

SIMULATION

MARKING



ISO 9001
Registered

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