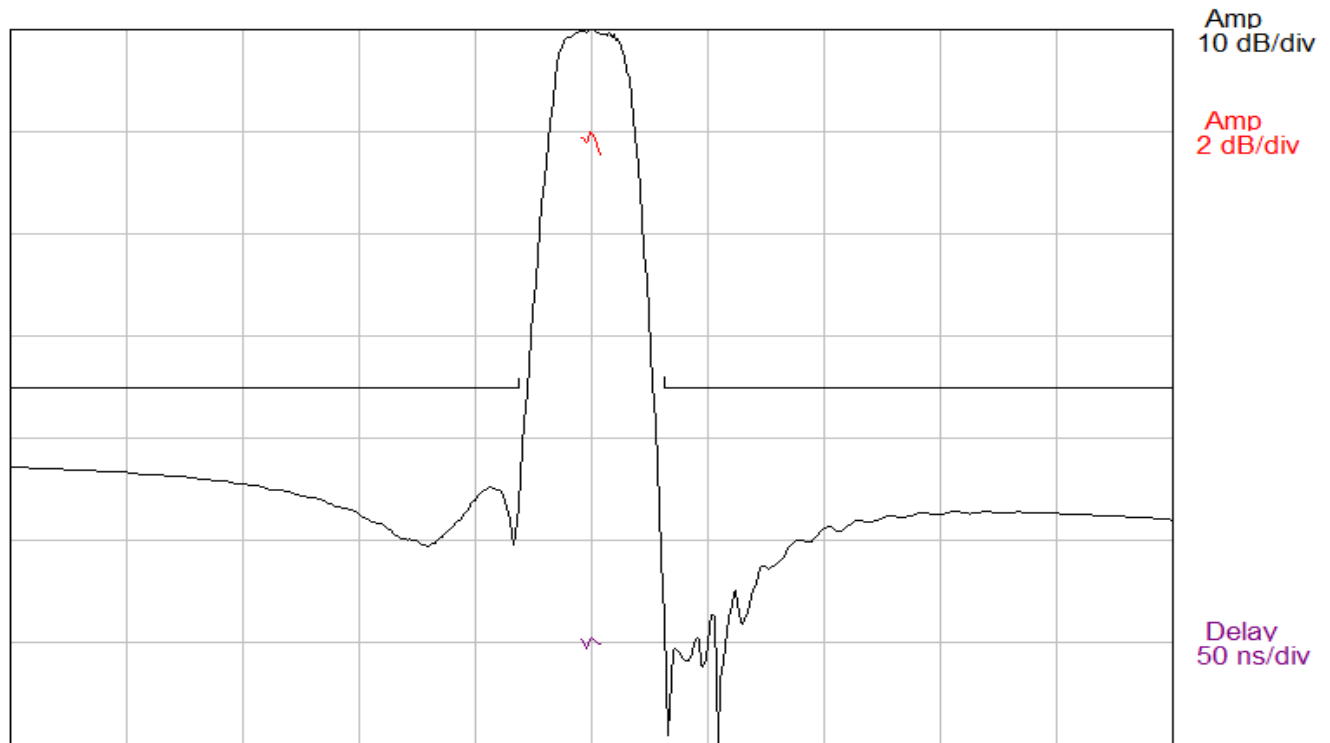


DESCRIPTION

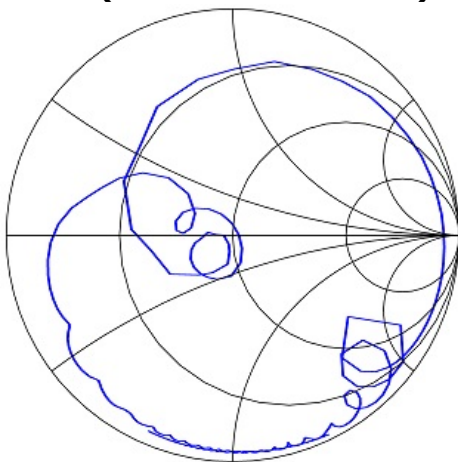
- 802.5 MHz Filter with 8 MHz Bandwidth
- 3.8 x 3.8 mm Ceramic LCC Package, 8 Pads
- RoHS compliant

SIMULATION

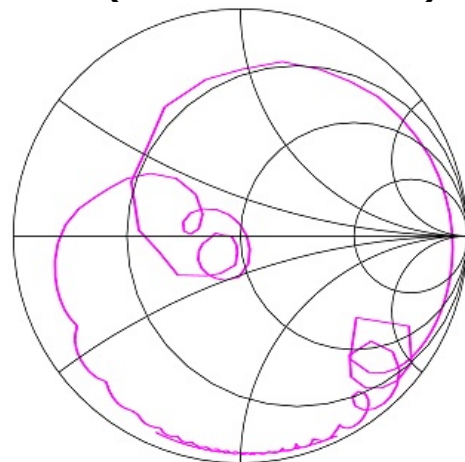
TYPICAL PERFORMANCE



S₁₁ (602.5-1002.5 MHz)



S₂₂ (602.5-1002.5 MHz)



SPECIFICATION

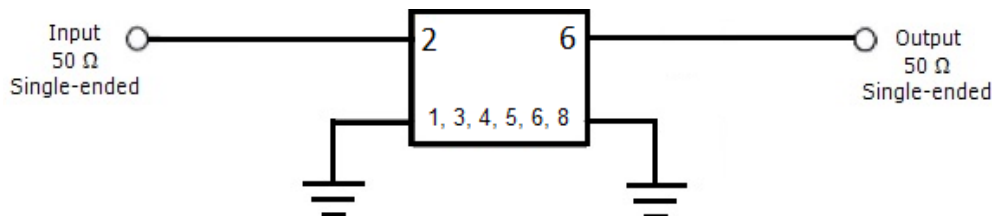
Parameter	Min	Type	Max	Units
Minimum Insertion Loss ¹	---	2.12	3.8	dB
Device Delay	---	0.037	---	µsec
2 dB bandwidth ¹	7	21.17	---	MHz
Center frequency (Fc, 3 dB) ¹	---	799.87	---	MHz
3 dB Bandwidth ¹	8	23.15	---	MHz
Lower 40 dB Frequency ¹	775	777.65	---	MHz
Upper 40 dB frequency ¹	---	821.09	825	MHz
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

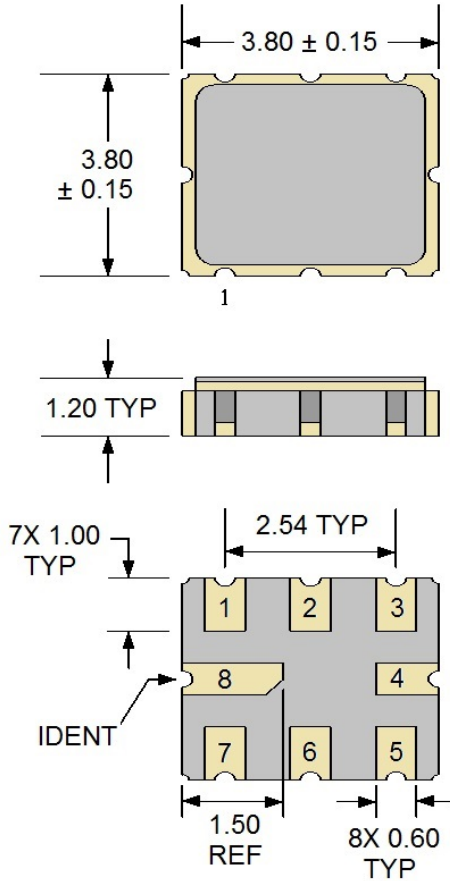


SIMULATION

Notes:

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

PACKAGE OUTLINE



Units: mm

Typical tolerances are ±0.15 mm except where indicated.

Pad Configuration:

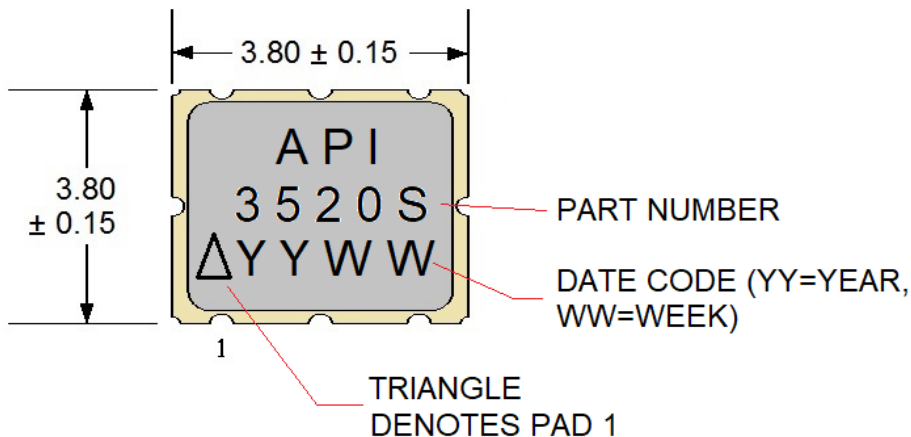
Input: 2
 Output: 6
 Ground: All other pads

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**

All specifications are believed to be accurate and reliable. However, API Technologies reserves the right to make changes without notice.
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