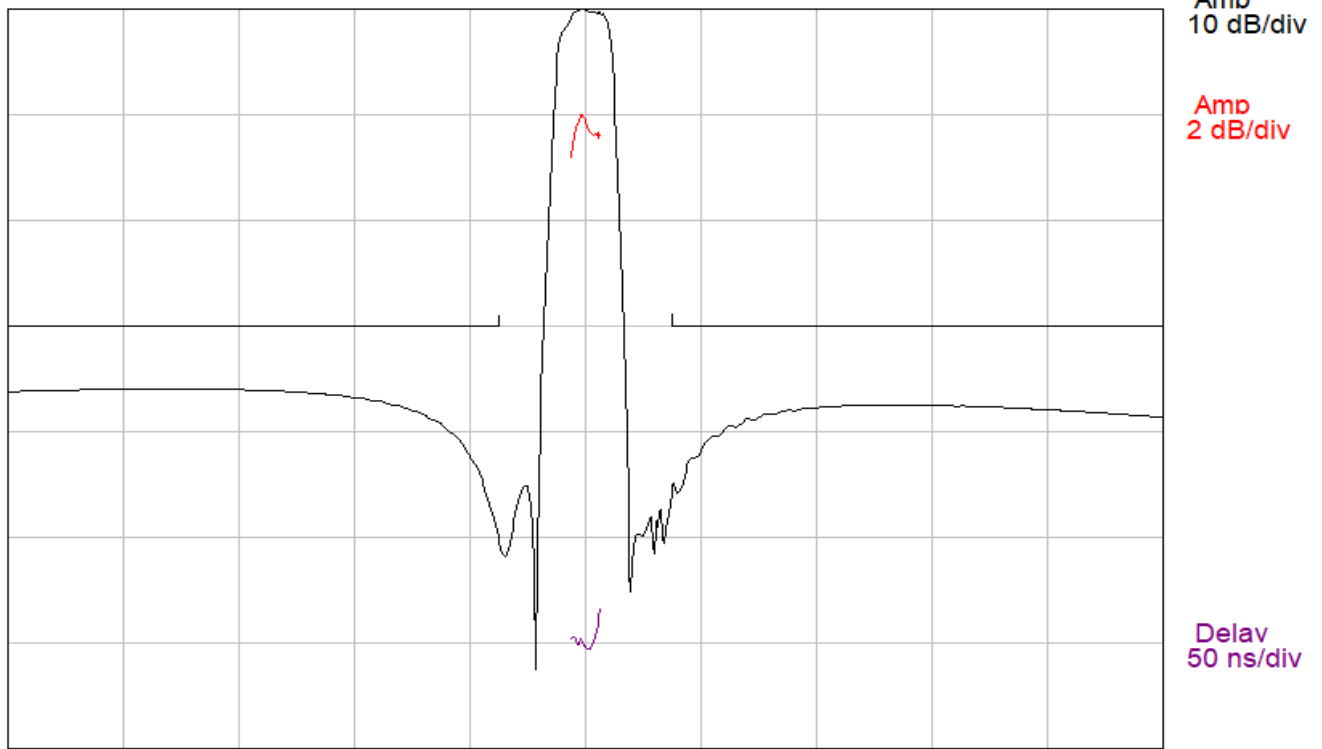


- 525 MHz Filter with 10 MHz Bandwidth
- 7 x 5 mm Ceramic LCC Package, 10 Pads
- RoHS compliant

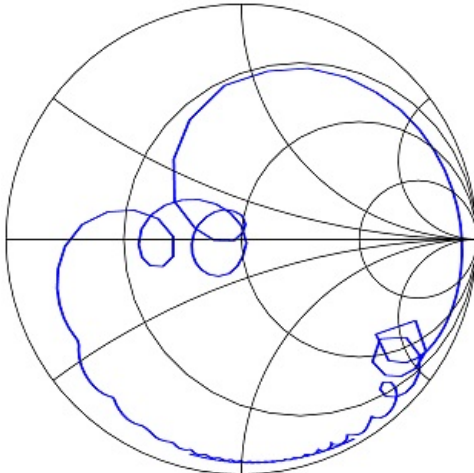
SIMULATION

TYPICAL PERFORMANCE

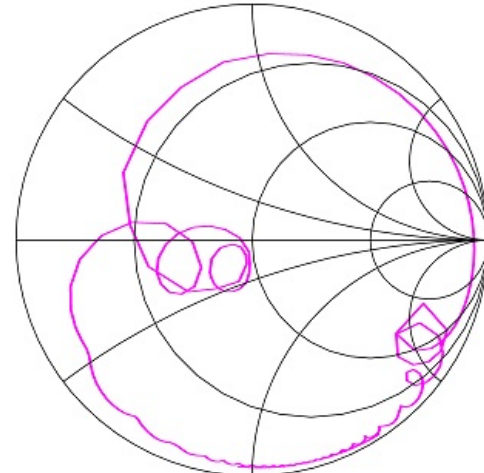


Center = 525 MHz, 40 MHz/div (500 kHz incr)

S₁₁ (325-725 MHz)



S₂₂ (325-725 MHz)



| Parameter | Min | Type | Max | Units |
|---|-----|--------|-----|--------|
| Minimum Insertion Loss | --- | 2.0 | 3.2 | dB |
| Device Delay | --- | 0.051 | --- | µsec |
| 2 dB bandwidth ¹ | 10 | 15.29 | --- | MHz |
| Lower 2 dB Frequency ¹ | --- | 517.49 | 520 | MHz |
| Upper 2 dB frequency ¹ | 530 | 532.78 | --- | MHz |
| Center frequency (Fc, 3 dB) ¹ | --- | 524.61 | --- | MHz |
| 3 dB Bandwidth ¹ | 12 | 17.52 | --- | MHz |
| Lower 3 dB Frequency ¹ | --- | 515.85 | 519 | MHz |
| Upper 3 dB Frequency ¹ | 531 | 533.37 | --- | MHz |
| Lower 30 dB Frequency ¹ | 495 | 510.46 | --- | MHz |
| Upper 30 dB Frequency ¹ | --- | 537.90 | 555 | MHz |
| Amplitude Ripple (520-530 MHz) | --- | 0.82 | 2 | dB p-p |
| Group Delay Ripple (220-230 MHz) | --- | 20 | --- | ns p-p |
| Rejection (25-195 MHz) ¹ | 30 | 36 | --- | dB |
| Rejection (255-425 MHz) ¹ | 30 | 38 | --- | dB |
| Input Return Loss (220-230 MHz) ² | 6 | 10.4 | --- | dB |
| Output Return Loss (220-230 MHz) ² | 6 | 10.0 | --- | dB |
| Material Temperature Coefficient | -40 | | | ppm/°C |
| Source and Load Impedance | 50 | | | ohms |
| Ambient Temperature | 25 | | | °C |

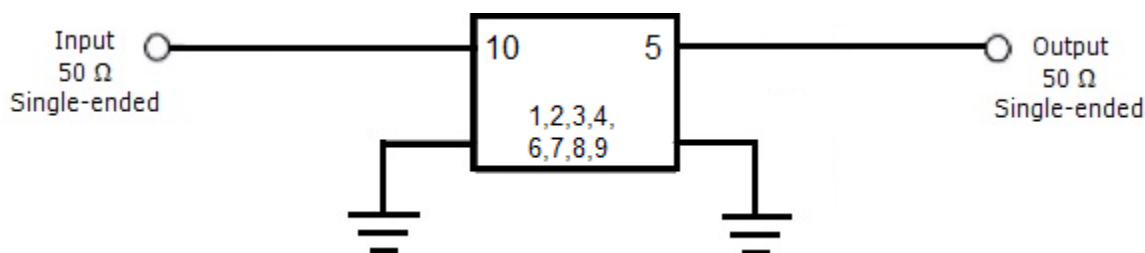
Notes: 1. Parameter value is referenced to the insertion loss value.
 2. Part is to operate in a 50 ohm single-ended system.

MAXIMUM RATINGS

| Parameter | Min | Max | Units |
|---------------------------|-----|-------|-------|
| Storage Temperature Range | -55 | 125 | °C |
| Input Power Level | +28 | +34** | dBm |

** Requires Verification

CIRCUIT

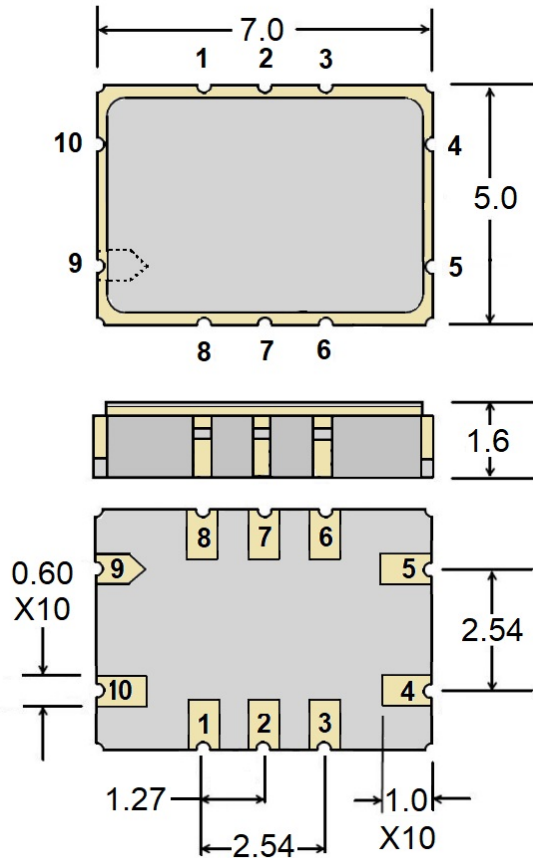


SIMULATION

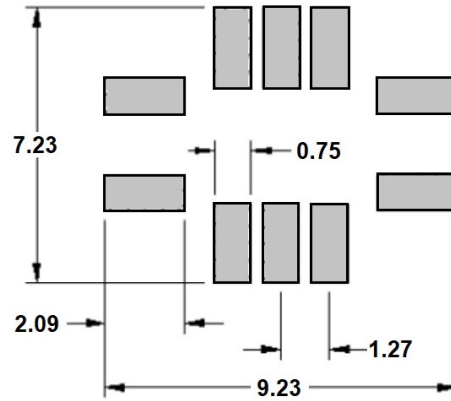
Notes:

- 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.

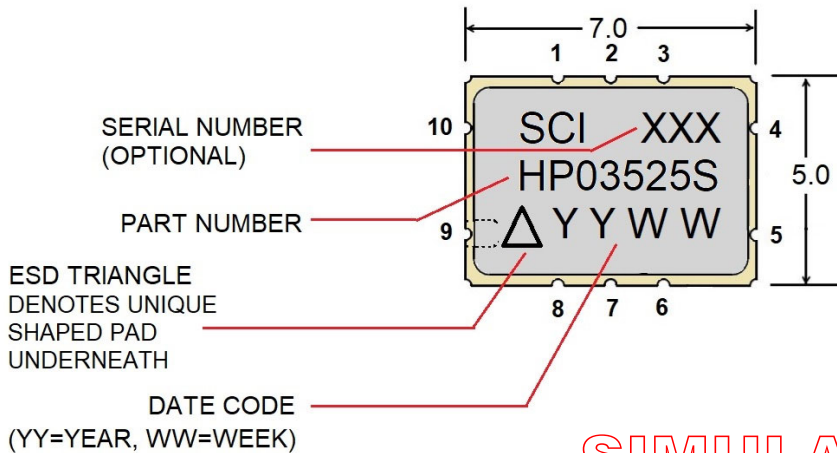
Pad Configuration:

- Input: 5
- Output: 10
- Ground: All other pads

Package Material:

- Body: Al₂O₃ ceramic
- Lid: Kovar, Ni plated
- Terminations: Au plating 1 μ m min, over a 1.3-8.9 μ m Ni plating

MARKING



SIMULATION

