

# 1575 MHz GPS, RF SAW Filter

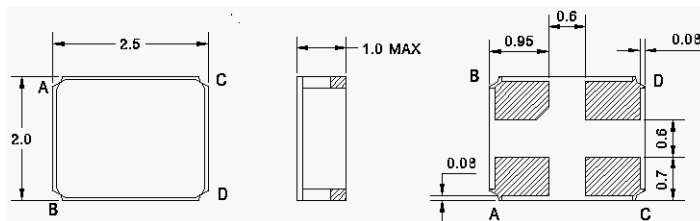
# 162975

## Specifications

| Parameter                                      | Unit               | Min | Typical   | Max |
|--|--------------------|-----|-----------|-----|
| Center Frequency ( $f_0$ )                     | MHz                | -   | 1575.42   | -   |
| Insertion Loss within 1574.42 ~ 1576.42 MHz    | dB                 | -   | 1.0       | 1.5 |
| Source Impedance (single ended) <sup>(1)</sup> | $\Omega$           | -   | 50        | -   |
| Load Impedance (single ended) <sup>(1)</sup>   | $\Omega$           | -   | 50        | -   |
| Operating Temperature Range                    | $^{\circ}\text{C}$ | -40 | -         | +85 |
| Amplitude Ripple within 1574.42 ~ 1576.42 MHz  | dB <sub>p-p</sub>  | -   | 0.1       | 0.5 |
| Attenuation:                                   |                    |     |           |     |
| D.C. ~ 1429 MHz                                | dB                 | 19  | 21        | -   |
| 1429 ~ 1501 MHz                                | dB                 | 23  | 26        | -   |
| 1501 ~ 1526 MHz                                | dB                 | 20  | 25        | -   |
| 1625 ~ 1650 MHz                                | dB                 | 15  | 30        | -   |
| 1650 ~ 2200 MHz                                | dB                 | 21  | 25        | -   |
| 2200 ~ 2500 MHz                                | dB                 | 21  | 25        | -   |
| VSWR within 1574.42 ~ 1576.42 MHz              | -                  | -   | 1.1       | 1.5 |
| Maximum DC Voltage                             | V                  | -   | -         | 7.5 |
| Maximum Input Power                            | dBm                | -   | -         | 20  |
| Package type & size                            |                    |     |           |     |
| Length X Width                                 | mm <sup>2</sup>    | -   | 2.5 X 2.0 | -   |
| Height   | mm                 | -   | -         | 1.0 |

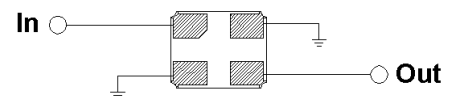
Notes: No Matching Network (Ref. Testing Environment Circuit as shown below).

## Package Outline



| PIN Descriptions |     |
|------------------|-----|
| IN               | B   |
| Out              | C   |
| Ground           | A,D |

## Testing Environment

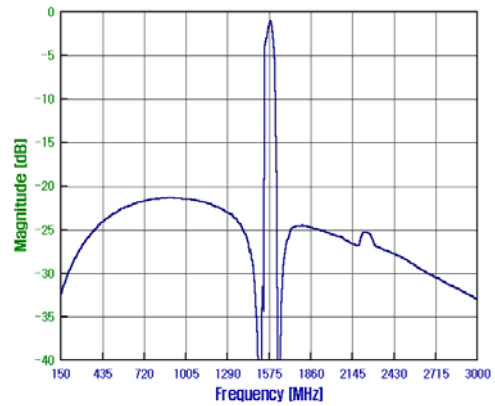
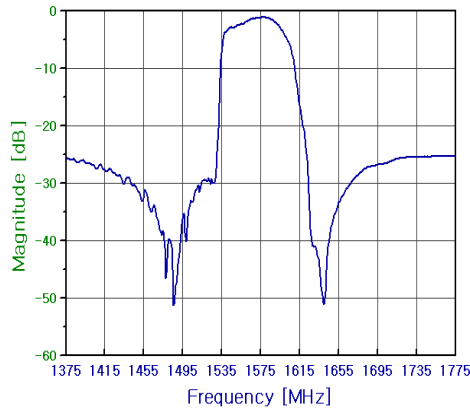


Source & Load Impedance 50 $\Omega$

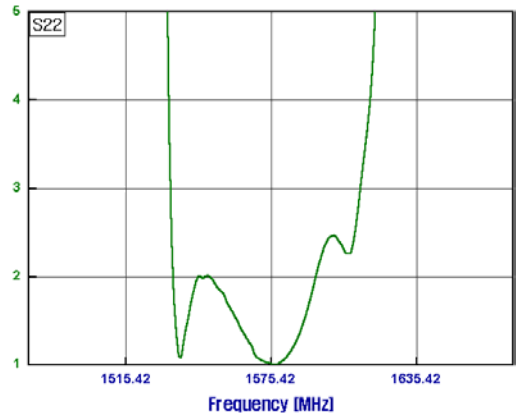
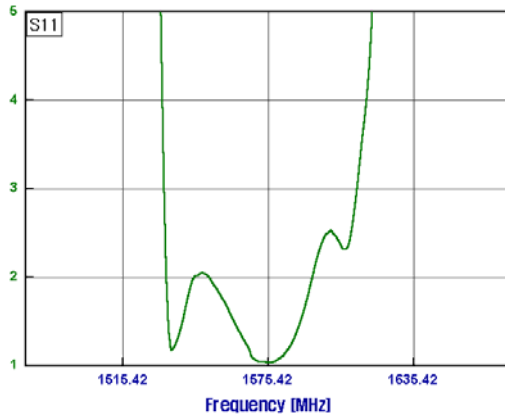
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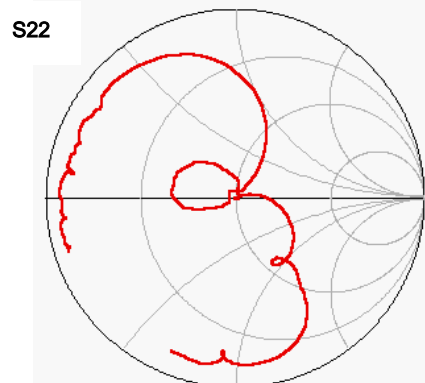
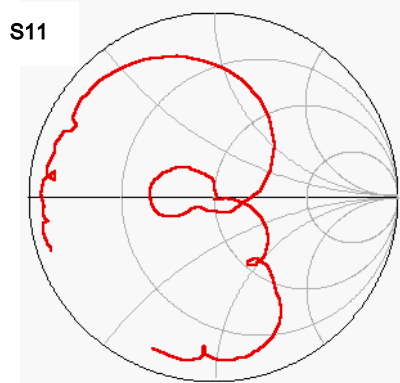
## Frequency Response



## VSWR



## Smith Chart



SAW PRODUCTS

COM DEV