



**ANATECH ELECTRONICS INC**  
RF & Microwave Filters & Products

## 978 MHz Wireless, RF Saw Filter

**Part Number: AM978S545**



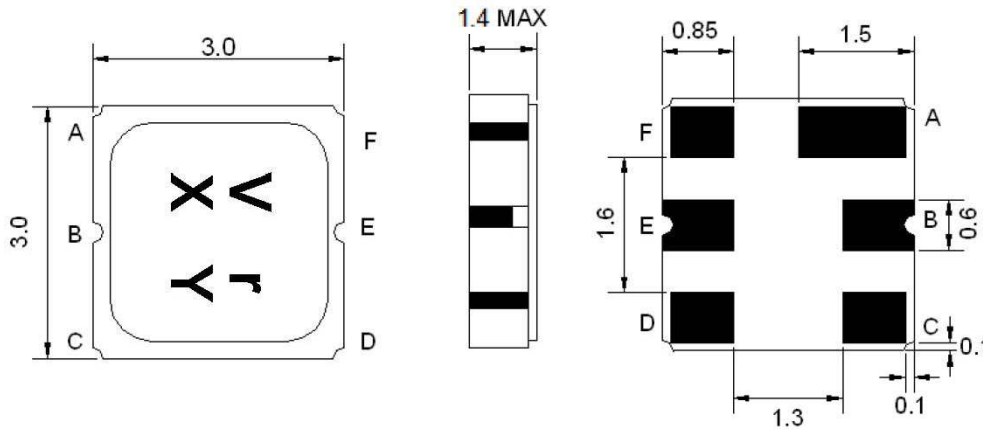
| Parameters Description                | Unit              | Minimum | Typical | Maximum |
|---------------------------------------|-------------------|---------|---------|---------|
| Center Frequency (Fo)                 | MHz               | -       | 978.0   | -       |
| Insertion Loss within 962 ~ 994 MHz   | dB                | -       | 2.85    | 4.0     |
| Amplitude Ripple within 962 ~ 994 MHz | dB <sub>p-p</sub> | -       | 0.85    | 1.8     |
| VSWR within 962 ~ 994 MHz             | -                 | -       | 2.15    | 2.5     |
| Group Delay Variation                 | nsec              | -       | 12      | 50      |
| <b>Attenuation:</b>                   |                   |         |         |         |
| DC ~ 900 MHz                          | dB                | 40      | 65      | -       |
| 900 ~ 930.0 MHz                       | dB                | 35      | 52      | -       |
| 1030 ~ 2000 MHz                       | dB                | 25      | 42      | -       |

| Parameters Description                       | Unit                 | Minimum | Typical | Maximum |
|--|----------------------|---------|---------|---------|
| Operation Temperature Range                  | °C                   | 0       | -       | +50     |
| Storage Temperature Range                    | °C                   | -40     | -       | +85     |
| Maximum DC Voltage                           | V                    | -       | -       | 0       |
| Maximum Input Power                          | dBm                  | -       | -       | 10      |
| Source Impedance (Single Ended) <sub>1</sub> | Ω                    | -       | 50      | -       |
| Load Impedance (Single Ended) <sub>1</sub>   | Ω                    | -       | 50      | -       |
| Package Size                                 | 3.0 x 3.0 x 1.3 mm M |         |         |         |

**Note:** (1) No Matching Network (Ref. Testing Environment Circuit as shown below).



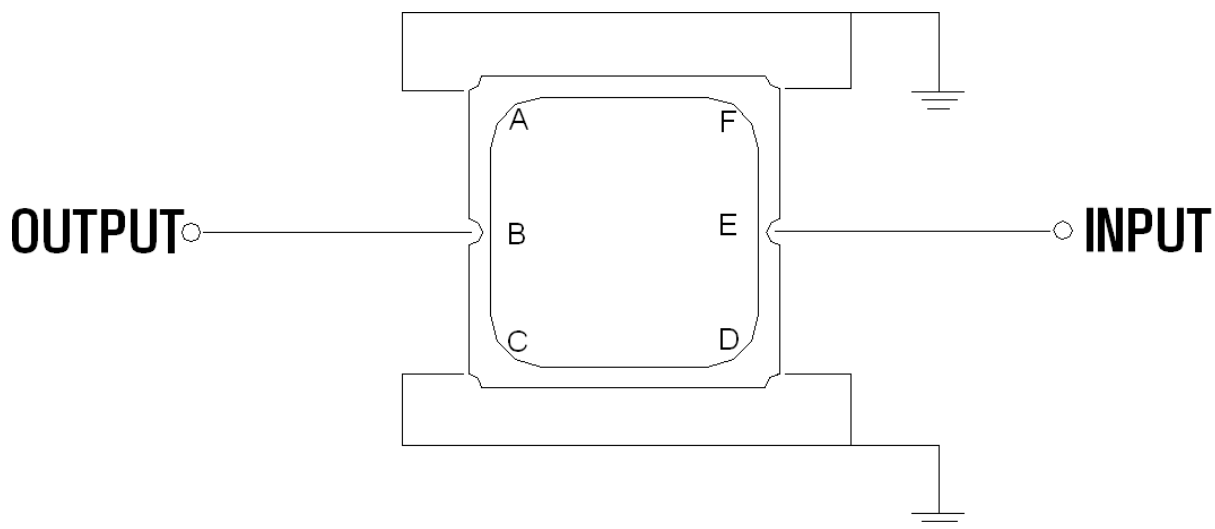
**Outline Drawing:**



| Alternate Marking | Marking Descriptions |                      |
|-------------------|----------------------|----------------------|
| S                 | V                    | Wireless Application |
| 9                 | r                    | Series Number        |
| X                 | X                    | Date Code(Year)      |
| Y                 | Y                    | Date Code(Month)     |

| Pin Description |        |
|-----------------|--------|
| A, C, D, F      | Ground |
| E               | In     |
| B               | Out    |

**Testing Environment:**



Source & Load Impedance: 50 Ω



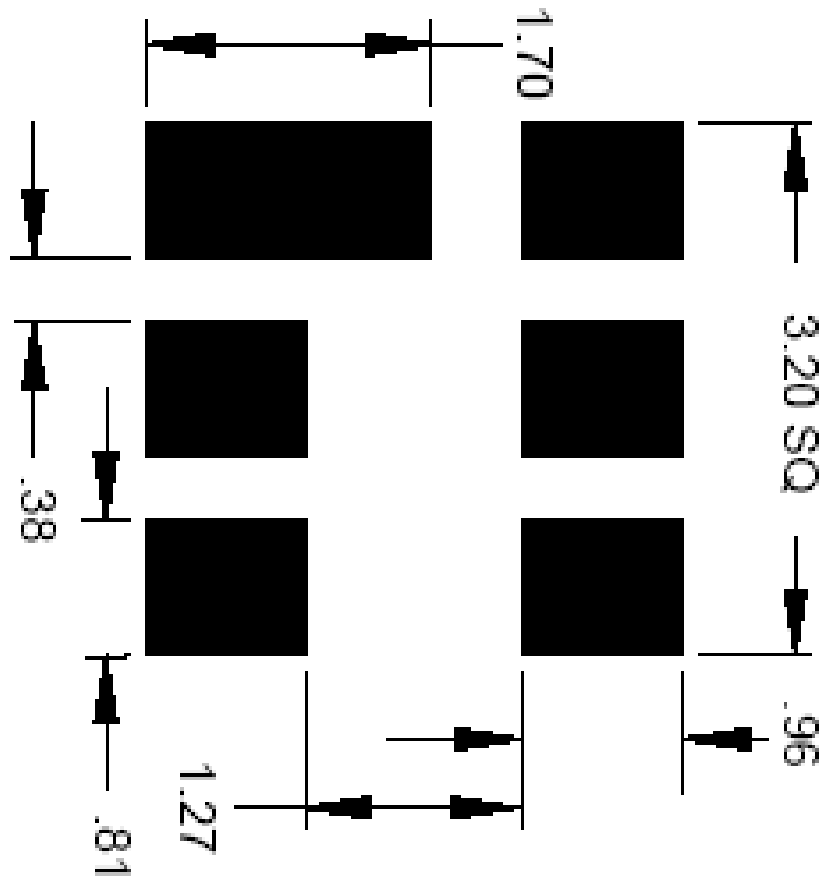
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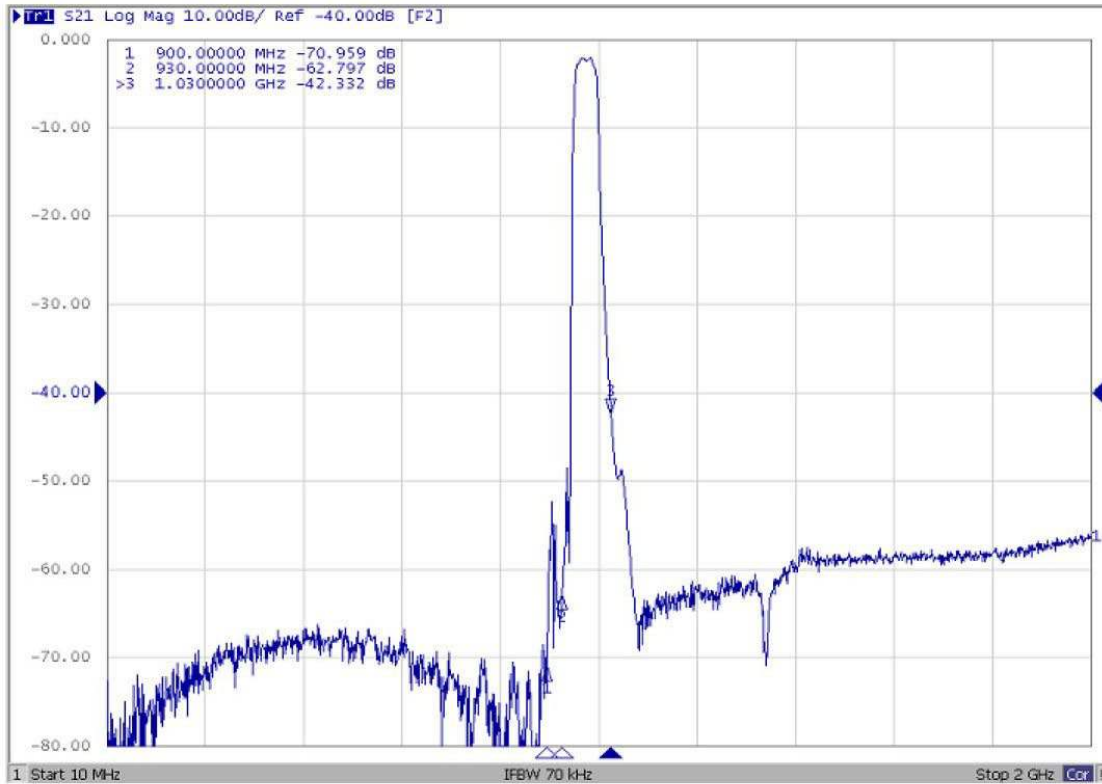


## Footprint:





### Response Plot:



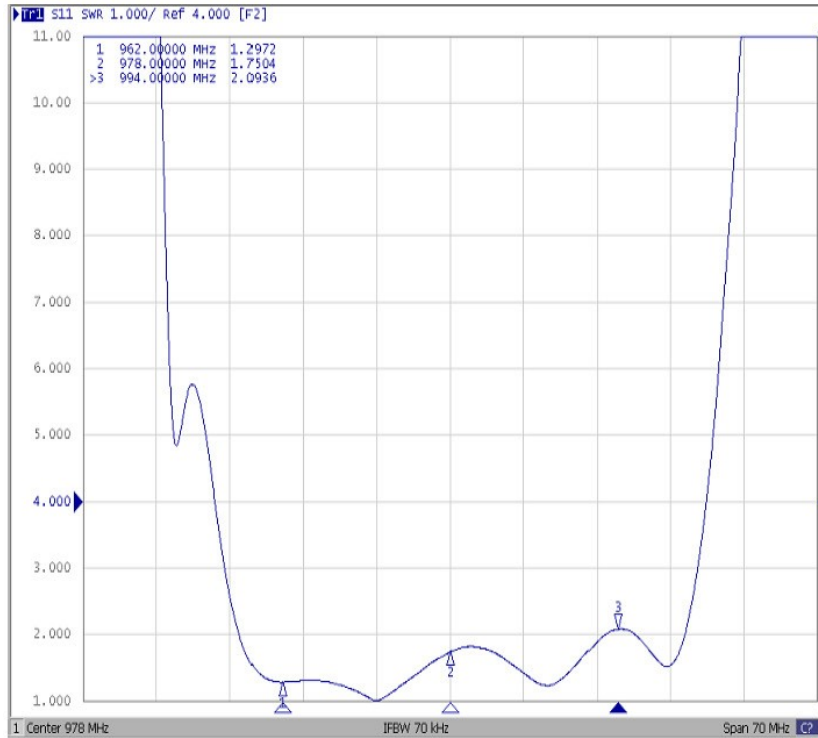


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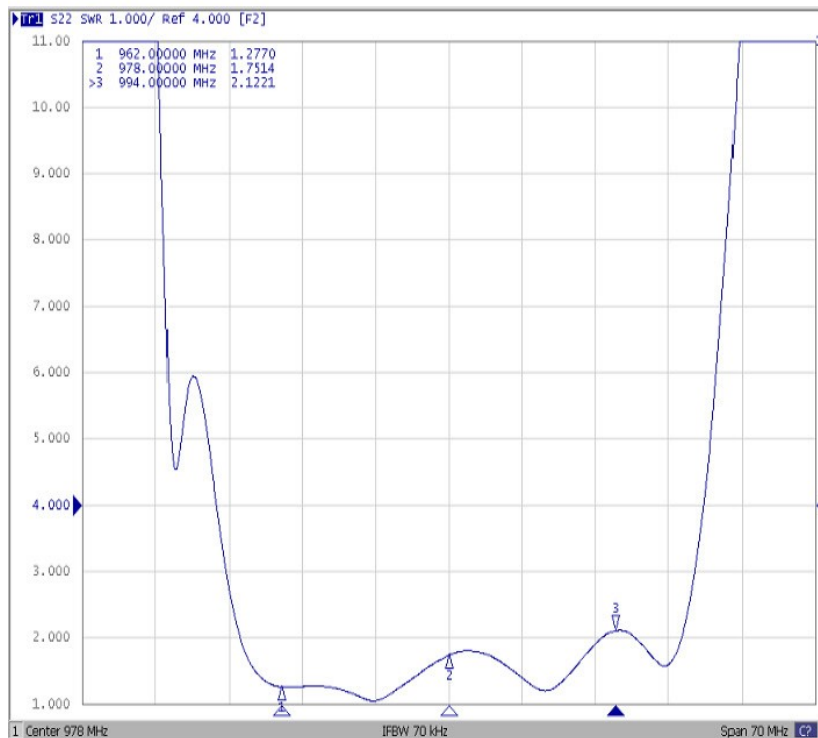
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### VSWR: S11



### S22





### Group Delay:

