

- GSM, RF SAW Filter
- Revision 0: January 2002

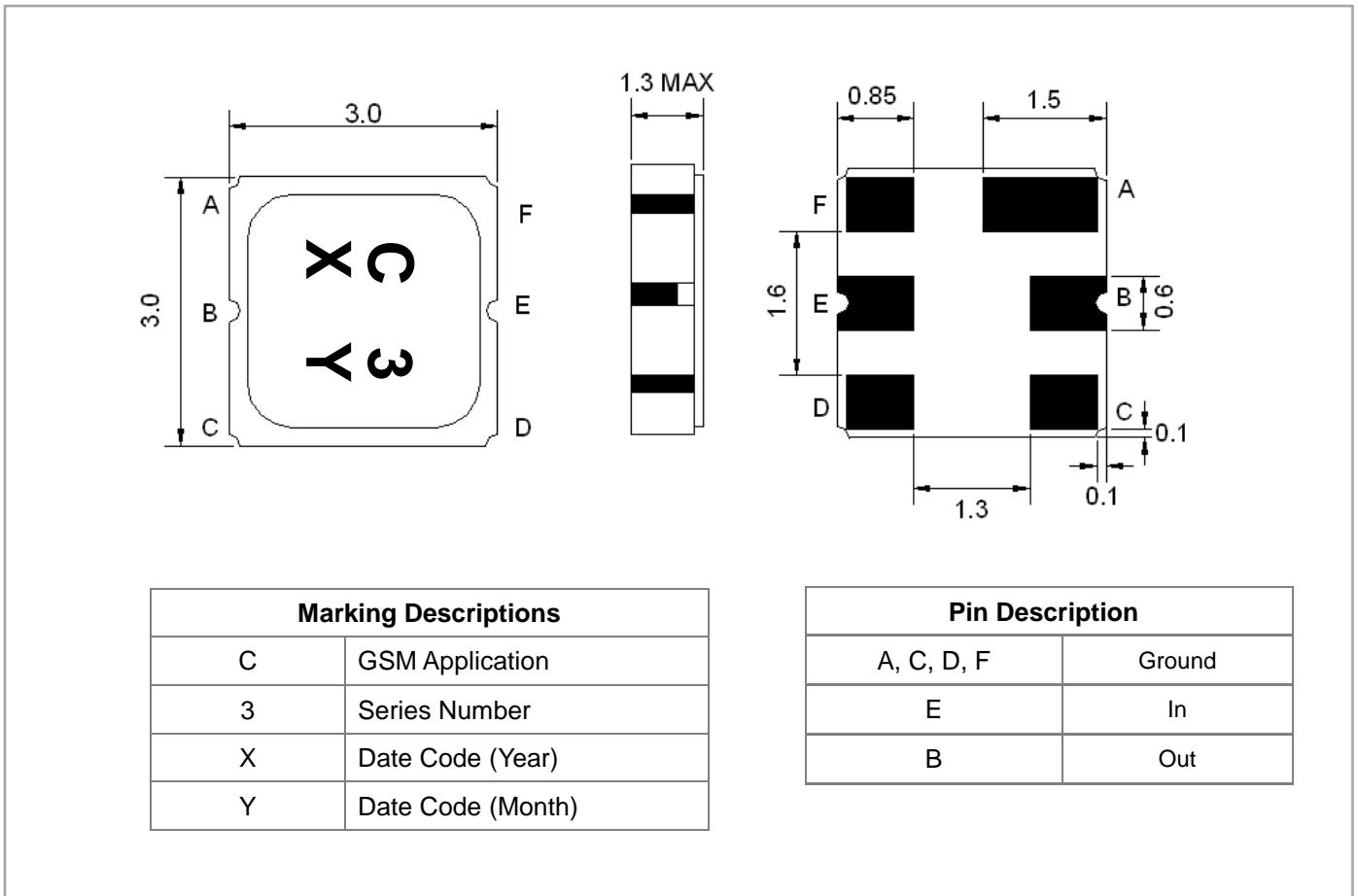
## Electrical Characteristics

| MAXIMUM RATING                                 |                 |         |           |         |
|--|-----------------|---------|-----------|---------|
| PARAMETERS DESCRIPTION                         | UNIT            | MINIMUM | TYPICAL   | MAXIMUM |
| Operating Temperature Range                    | °C              | -30     | -         | +80     |
| Storage Temperature Range                      | °C              | -40     | -         | +85     |
| Maximum DC Voltage                             | V               | -       | -         | 5       |
| Maximum Input Power                            | dBm             | -       | -         | 15      |
| Source Impedance (single ended) <sup>(1)</sup> | Ω               | -       | 50        | -       |
| Load Impedance (single ended) <sup>(1)</sup>   | Ω               | -       | 50        | -       |
| Package type & size                            | M               |         |           |         |
| Length x Width                                 | mm <sup>2</sup> | -       | 3.0 x 3.0 | -       |
| Height   | mm              | -       | -         | 1.3     |

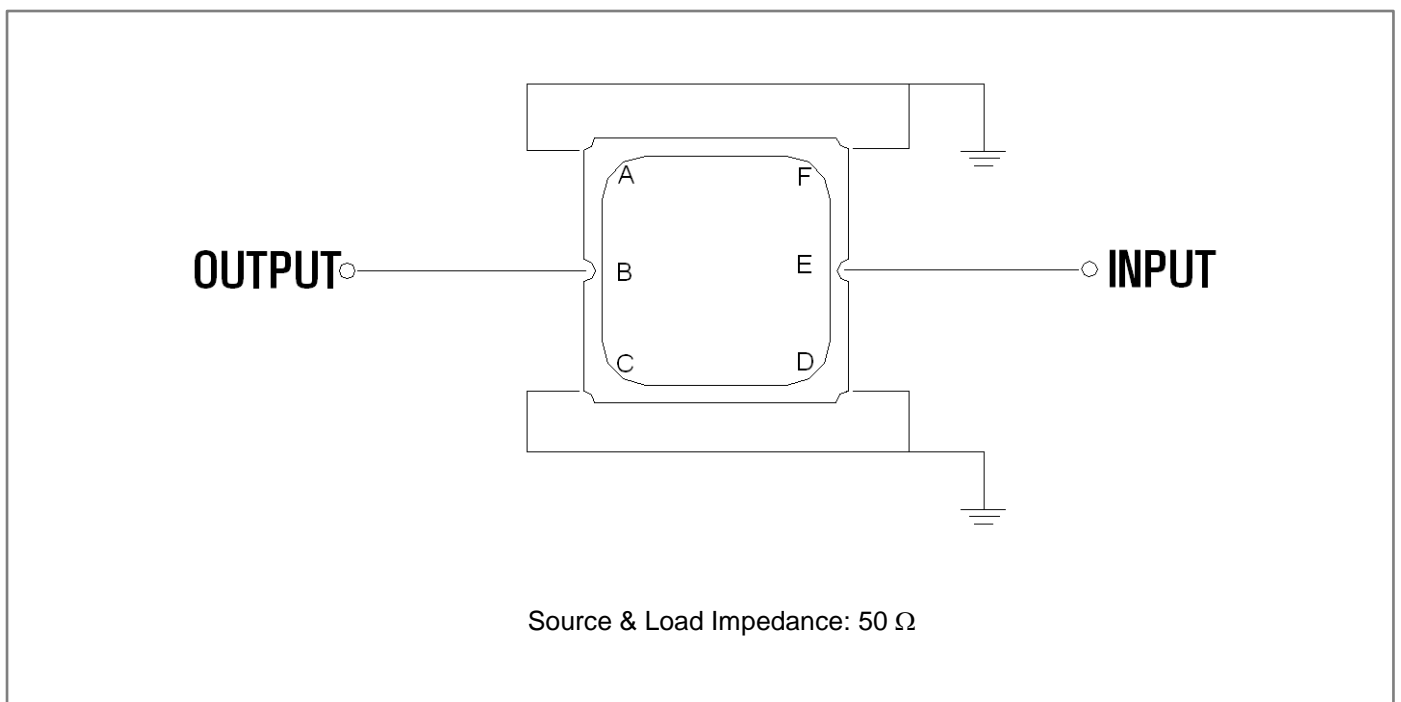
| ELECTRICAL SPECIFICATION                |                   |         |         |         |
|---|-------------------|---------|---------|---------|
| PARAMETERS DESCRIPTION                  | UNIT              | MINIMUM | TYPICAL | MAXIMUM |
| Center Frequency (Fo)                   | MHz               | -       | 947.5   | -       |
| Insertion Loss 935.0~960.0 MHz          | dB                | -       | 3.2     | 4.0     |
| Amplitude Ripple within 935.0~960.0 MHz | dB <sub>p-p</sub> | -       | 0.8     | 1.5     |
| <b>Attenuation:</b>                     |                   |         |         |         |
| D.C. ~ 870.0 MHz                        | dB                | 45      | 53      | -       |
| 870.0 ~ 915.0 MHz                       | dB                | 40      | 45      | -       |
| 980.0 ~ 985.0 MHz                       | dB                | 28      | 32      | -       |
| 985.0 ~ 1025.0MHz                       | dB                | 29      | 34      | -       |
| 1025.0 ~ 1500.0 MHz                     | dB                | 42      | 48      | -       |
| 1500.0 ~ 2000.0 MHz                     | dB                | 40      | 47      | -       |
| 2000.0 ~ 3000.0 MHz                     | dB                | 35      | 39      | -       |
| VSWR (935.0~960.0 MHz)                  | -                 | -       | 1.7     | 2.0     |

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

## Package Dimensions

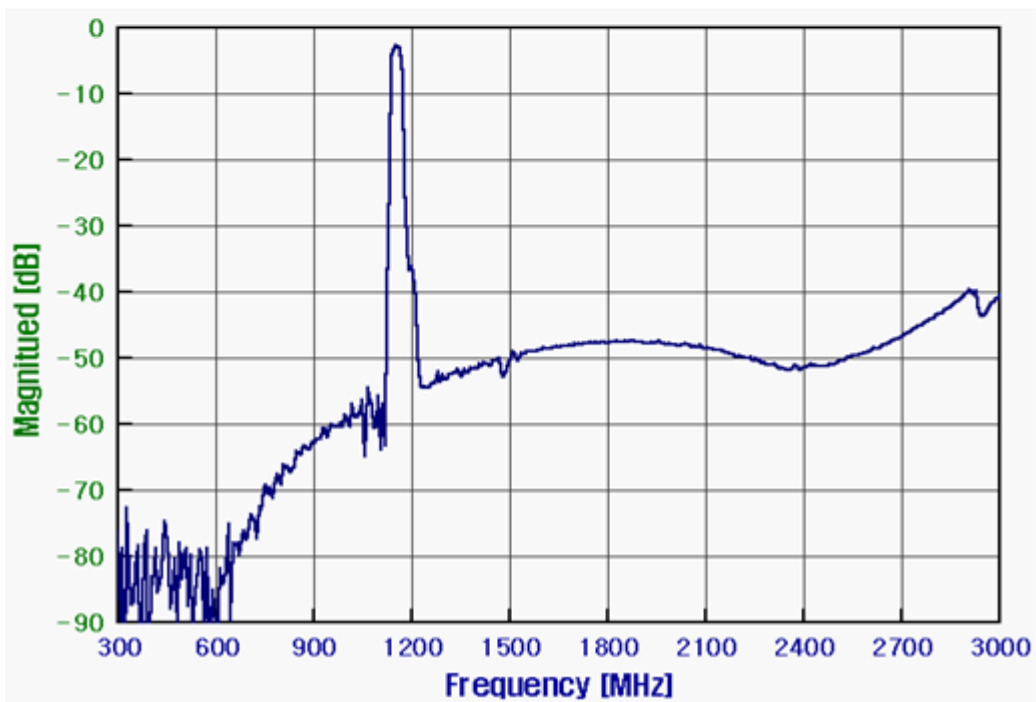
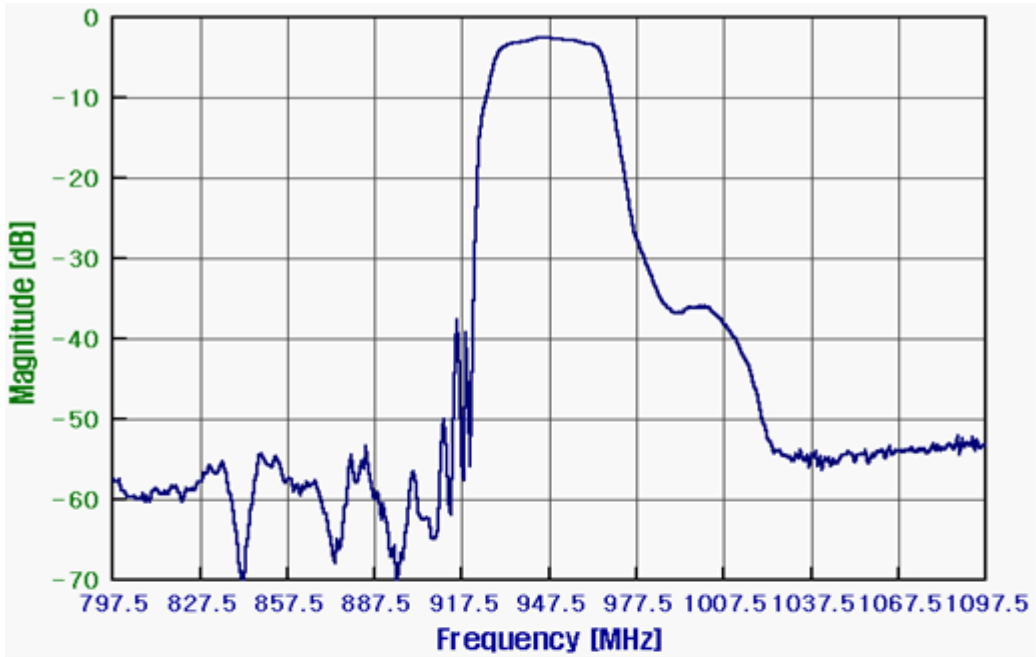


## Testing Environment

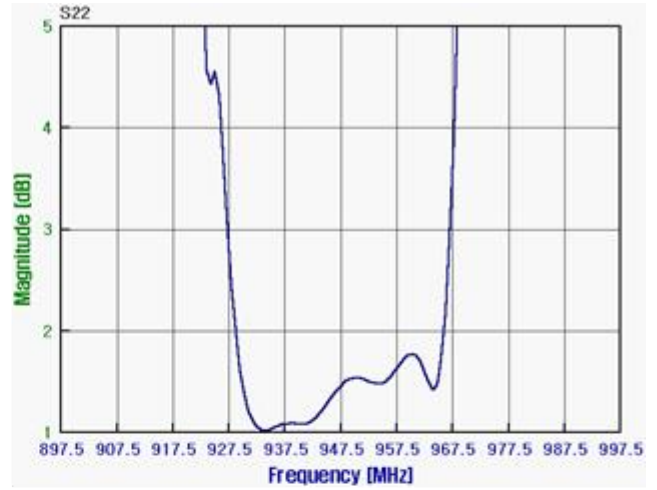
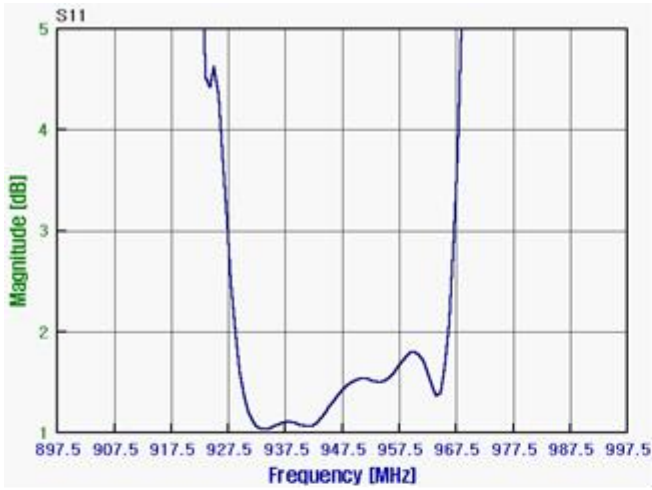


**Frequency Characteristics**

**Frequency Response**



**VSWR**



**Smith Chart**

