

# SF-031402-S27

ISM-Band, RF SAW Filter  
Revision 0: April 2017



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## □ Electrical Characteristics

### Maximum Ratings

| Parameters Description                       | Unit     | Minimum | Typical   | Maximum |
|----------------------------------------------|----------|---------|-----------|---------|
| Operating Temperature Range                  | °C       | -40     | -         | +85     |
| Storage Temperature Range                    | °C       | -40     | -         | +85     |
| Maximum DC Voltage                           | V        | -       | -         | 6       |
| Maximum Input Power                          | dBm      | -       | -         | 10      |
| Source Impedance (unbalanced) <sup>(1)</sup> | $\Omega$ | -       | 50        | -       |
| Load Impedance (unbalanced) <sup>(1)</sup>   | $\Omega$ | -       | 50        | -       |
| Package type & size                          | S27      |         |           |         |
| Length x Width                               | -        | -       | 3.0 x 3.0 | -       |
| Height                                       | mm       | -       | -         | 1.4     |

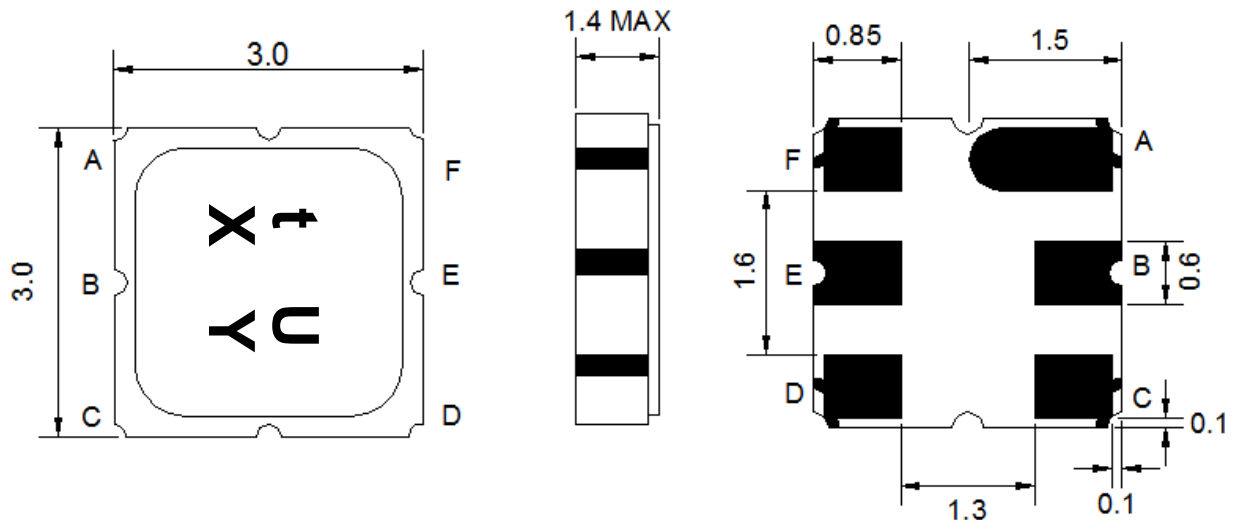
### Electrical Specification

| Parameters Description                                                    | Unit | Minimum | Typical | Maximum |
|---------------------------------------------------------------------------|------|---------|---------|---------|
| Center frequency <b>Fc</b>                                                | MHz  | -       | 314.35  | -       |
| Insertion loss 314.05 ~ 314.65 MHz <b>IL</b>                              | dB   | -       | 1.6     | 2.5     |
| Amplitude ripple 314.05 ~ 314.65 MHz                                      | dB   | -       | 0.1     | 1.2     |
| Relative Attenuation (Relative to $\alpha_{\min}$ ) $\alpha_{\text{rel}}$ |      |         |         |         |
| 270.00 ~ 286.00 MHz                                                       | dB   | 55      | 63      | -       |
| 292.65 ~ 293.25 MHz                                                       | dB   | 53      | 79      | -       |
| 303.35 ~ 303.95 MHz                                                       | dB   | 48      | 67      | -       |
| 324.75 ~ 325.35 MHz                                                       | dB   | 23      | 30      | -       |
| 335.45 ~ 336.05 MHz                                                       | dB   | 42      | 50      | -       |
| 357.50 ~ 358.70 MHz                                                       | dB   | 50      | 66      | -       |

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

(2)For SiO<sub>2</sub> coating.

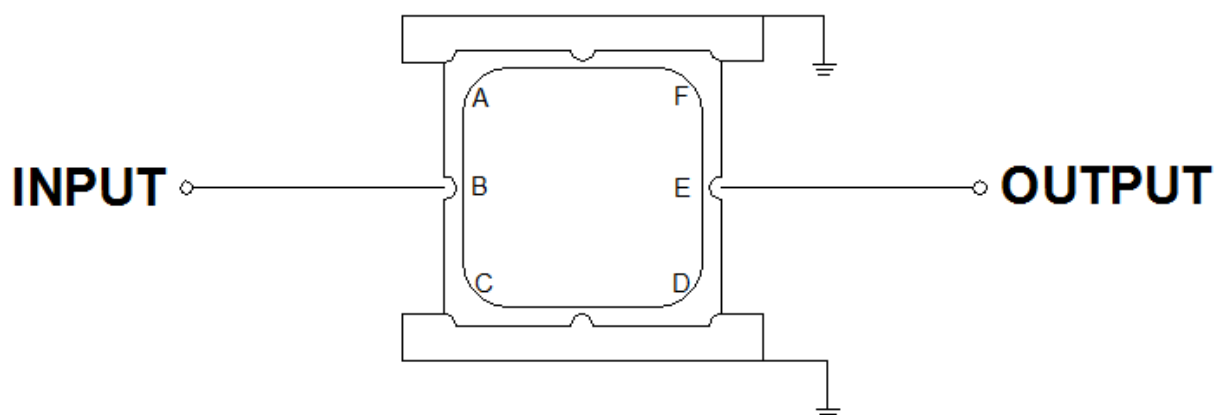
## Package Dimensions



| Marking Descriptions |                      |
|----------------------|----------------------|
| t                    | ISM-Band Application |
| U                    | Series Number        |
| X                    | Date Code(Year)      |
| Y                    | Date Code(Month)     |

| Pin Description |        |
|-----------------|--------|
| A,C,D,F         | Ground |
| B               | Input  |
| E               | Output |

## Testing Environment



Source & Load Impedance: 50 Ω

### □ Frequency Characteristics

#### Frequency Response

