

# SF-086603-S27

ISM-Band, RF SAW Filter  
Revision 1: May 2018



- ☐ Electrical Characteristics
  - ☐ Package Dimensions
  - ☐ Testing Environment
  - ☐ Frequency Characteristics
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## □ Electrical Characteristics

### Maximum Ratings

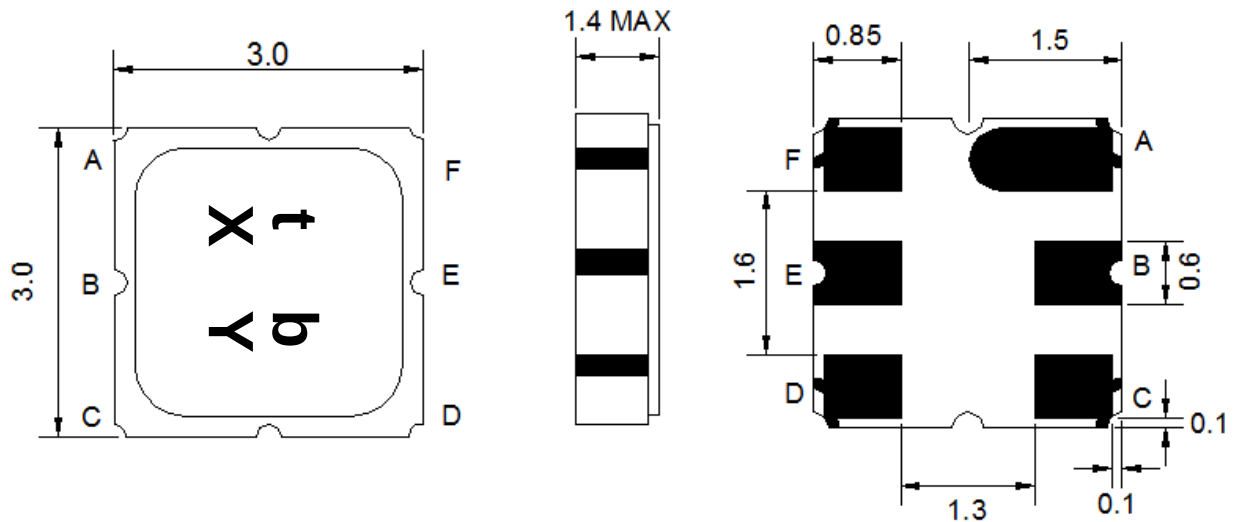
| Parameters Description                       | Unit | Minimum | Typical   | Maximum |
|----------------------------------------------|------|---------|-----------|---------|
| Operating Temperature Range                  | °C   | -40     | -         | +85     |
| Storage Temperature Range                    | °C   | -40     | -         | +85     |
| Maximum DC Voltage                           | V    | -       | -         | 3       |
| Maximum Input Power                          | dBm  | -       | -         | 18      |
| Source Impedance (unbalanced) <sup>(1)</sup> | Ω    | -       | 50        | -       |
| Load Impedance (unbalanced) <sup>(1)</sup>   | Ω    | -       | 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>Fo</b>              | MHz  | -       | 866.0   | -       |
| Insertion loss at Fc <b>Amax</b>        | dB   | -       | 2.3     | 3.0     |
| Ripple ( 863~870 MHz )                  | dB   | -       | 0.3     | 1.3     |
| VSWR (863~870 MHz)                      |      | -       | 1.2     | 2.0     |
| Attenuation (Reference level from Amax) |      |         |         |         |
| 10 ~ 830.0 MHz                          | dB   | 45      | 49      | -       |
| 830 ~ 850.0 MHz                         | dB   | 22      | 35      | -       |
| 885 ~ 905.0 MHz                         | dB   | 27      | 35      | -       |
| 905 ~ 950.0 MHz                         | dB   | 45      | 49      | -       |
| 950 ~ 1500.0 MHz                        | dB   | 40      | 47      |         |
| 1500 ~ 3000.0 MHz                       | dB   | 25      | 28      |         |

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

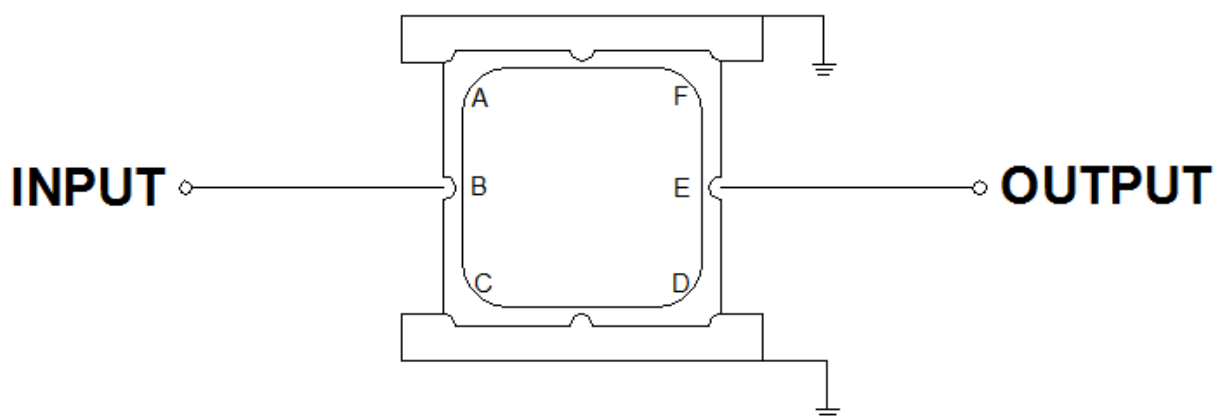
## Package Dimensions



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

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

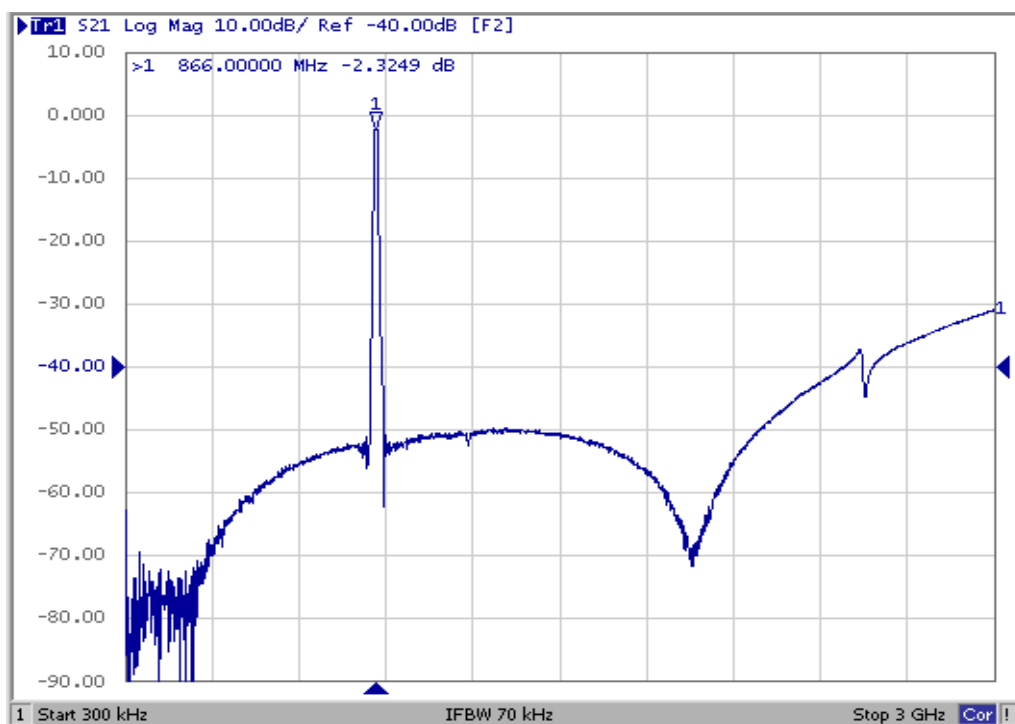
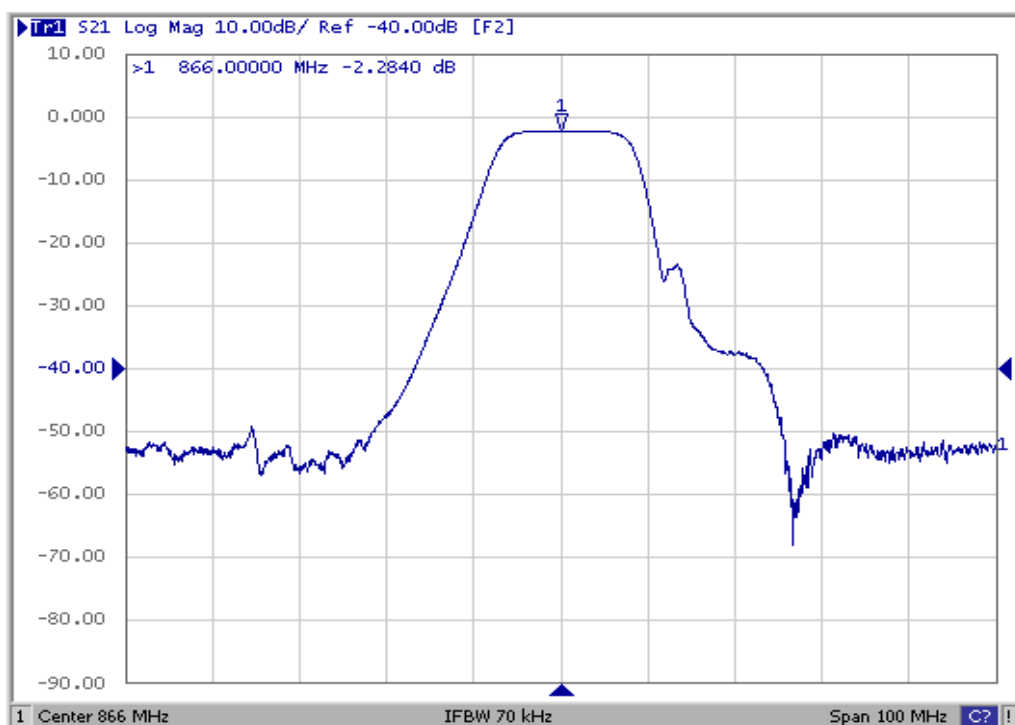
## Testing Environment



Source & Load Impedance: 50  $\Omega$

### Frequency Characteristics

#### Frequency Response



### VSWR

