

# SF-086604-S27

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



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-

## □ Electrical Characteristics

### Maximum Ratings

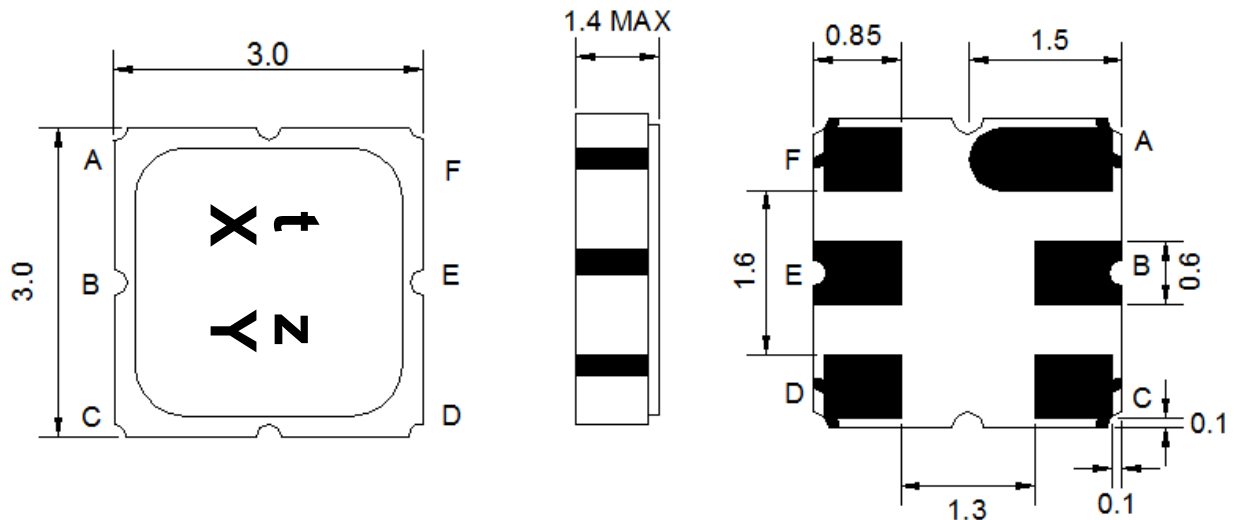
| Parameters Description                       | Unit | Minimum | Typical   | Maximum |
|----------------------------------------------|------|---------|-----------|---------|
| Operating Temperature Range                  | °C   | -40     | -         | +85     |
| Storage Temperature Range                    | °C   | -40     | -         | +85     |
| Maximum DC Voltage                           | V    | -       | -         | 0       |
| Maximum Input Power                          | dBm  | -       | -         | 15      |
| 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>F<sub>c</sub></b>        | MHz  | -       | 866.5   | -       |
| Insertion Loss (863.0 ~ 870.0 MHz) <b>IL</b> | dB   |         | 3.0     | 3.8     |
| Amplitude ripple (863.0 ~ 870.0 MHz)         | dB   |         | 1.5     | 2.0     |
| VSWR (863.0 ~ 870.0 MHz)                     | -    |         | 1.8     | 2.2     |
| Attenuation (Reference level from 0 dB)      |      |         |         |         |
| 10.0 ~ 830.0 MHz                             | dB   | 40      | 45      |         |
| 830.0 ~ 845.0 MHz                            | dB   | 32      | 37      |         |
| 880.0 ~ 884.0 MHz                            | dB   | 20      | 25      |         |
| 884.0 ~ 887.0 MHz                            | dB   | 36      | 41      |         |
| 887.0 ~ 965.0 MHz                            | dB   | 45      | 50      |         |
| 965.0 ~ 2000.0 MHz                           | dB   | 45      | 50      |         |

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

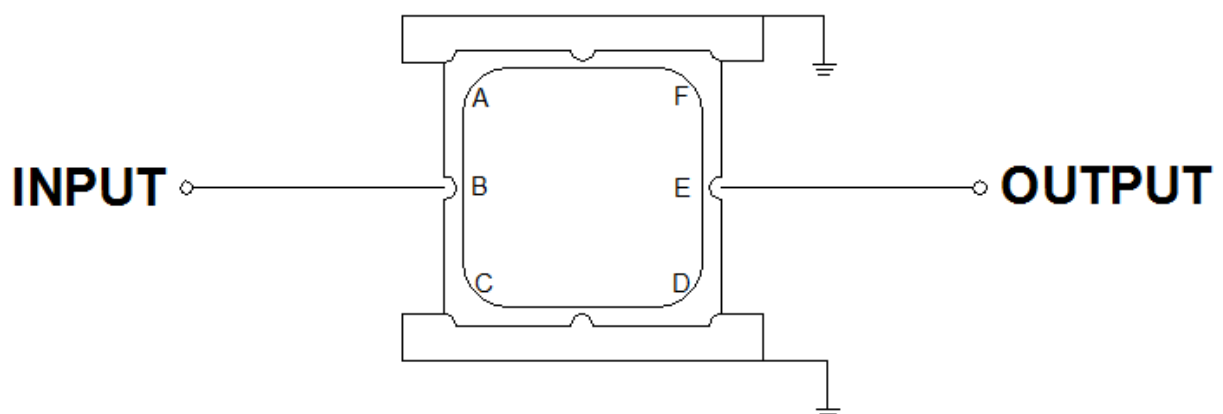
## Package Dimensions



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

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

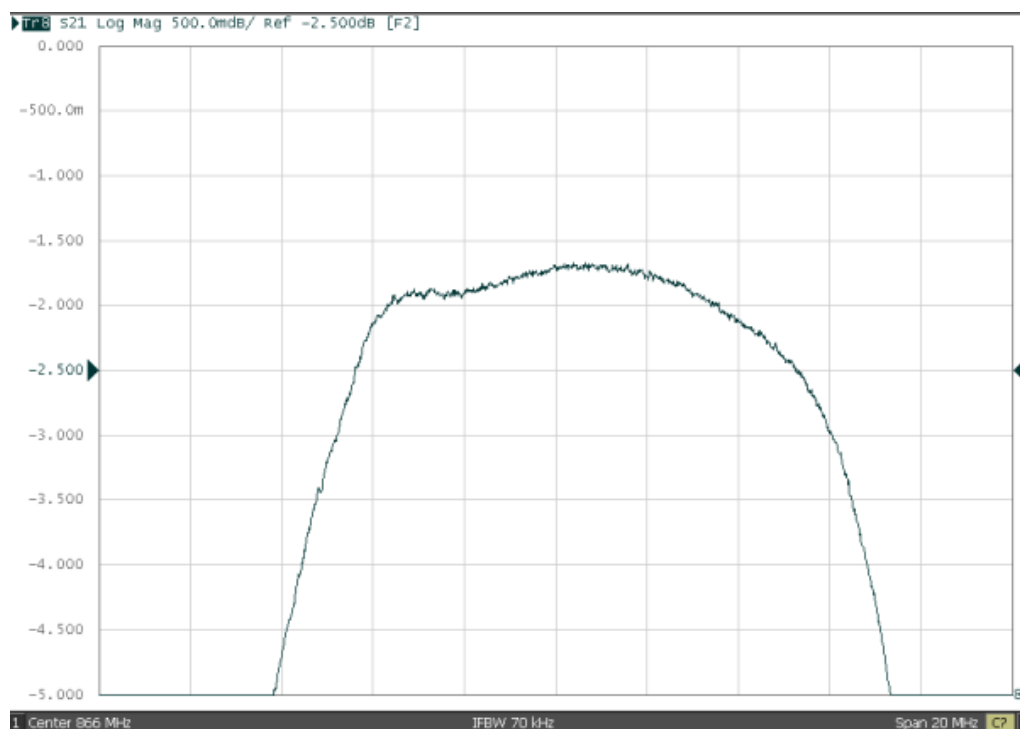
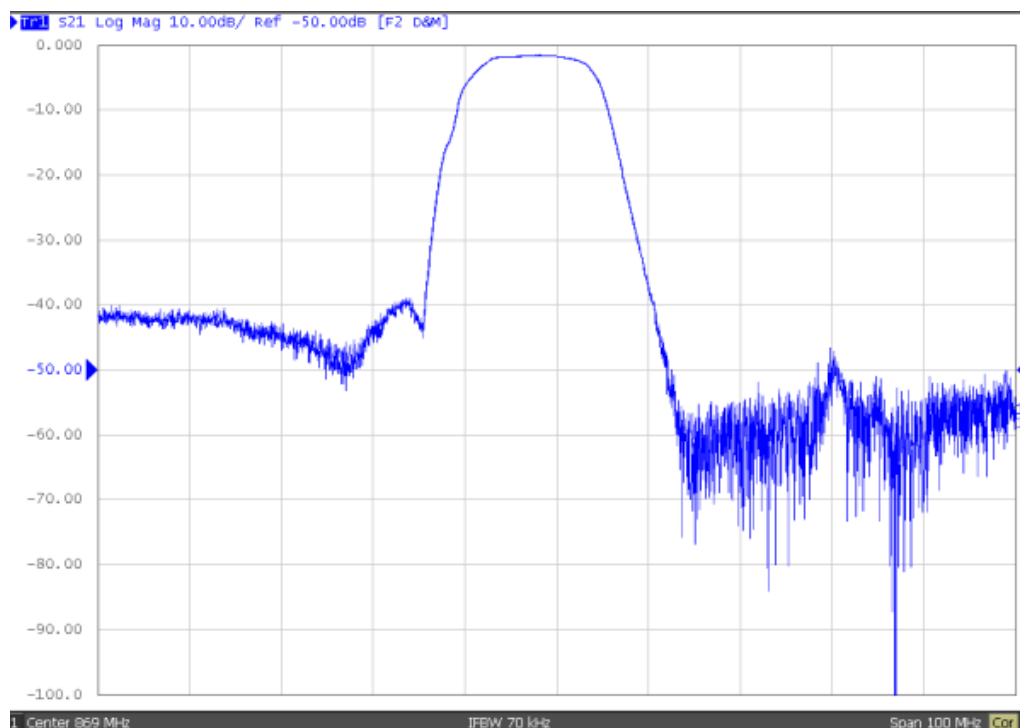
## Testing Environment

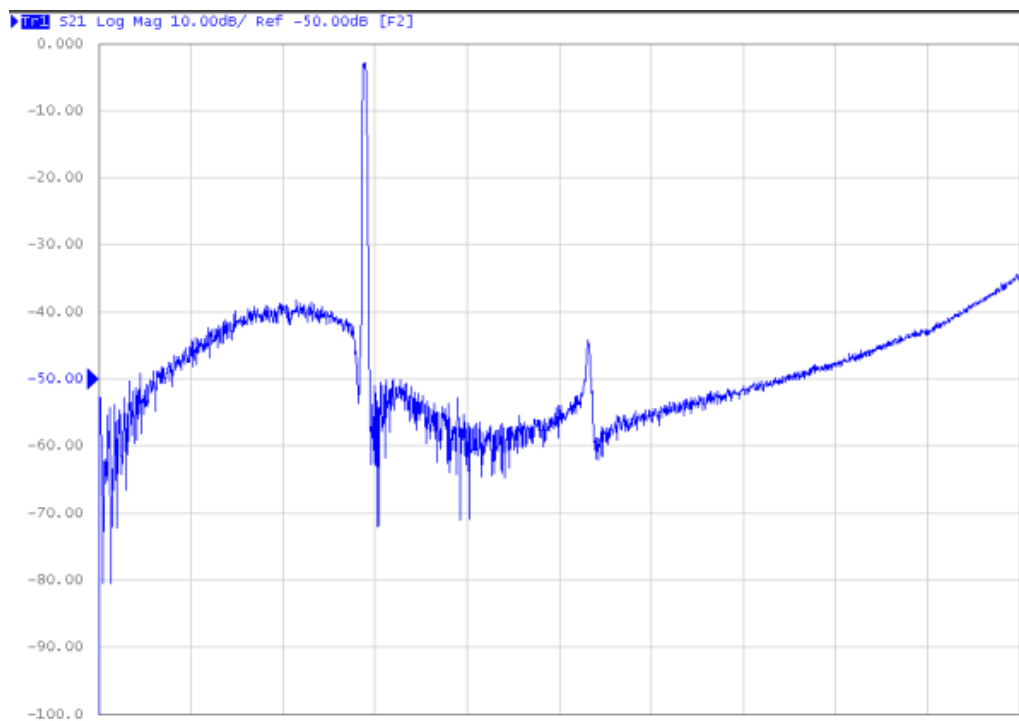


Source & Load Impedance: 50  $\Omega$

### □ Frequency Characteristics

#### Frequency Response





Smith chart

