**SAWNICS INC.**

# DATASHEET

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|---|---|
| **CUSTOMER** | |
| **PRODUCT NAME** | **Dielectric Band Pass Filter** |
| **PART NO.** | **SF-5670M1-CJ3** |
| **SPEC. NO.** | **SF-5670M1-CJ3_Rev1** |
| **MODEL** | |
| **DATE** | **16-OCT-2018** |

| **APPROVAL** | | |
|---|---|---|
| **PREPARE** | **CHECK** | **APPROVAL** |
| | | |
| **DATE:** | | |

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# History

| Version | Date | Description | Prepared | Checked | Approved |
|---|---|---|---|---|---|
| V1 | 2018. 10. 16 | - Issued Datasheet | 김영호 | 김남준 | 김성욱 |
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## 1. Applications

* Dielectric Band Pass Filter

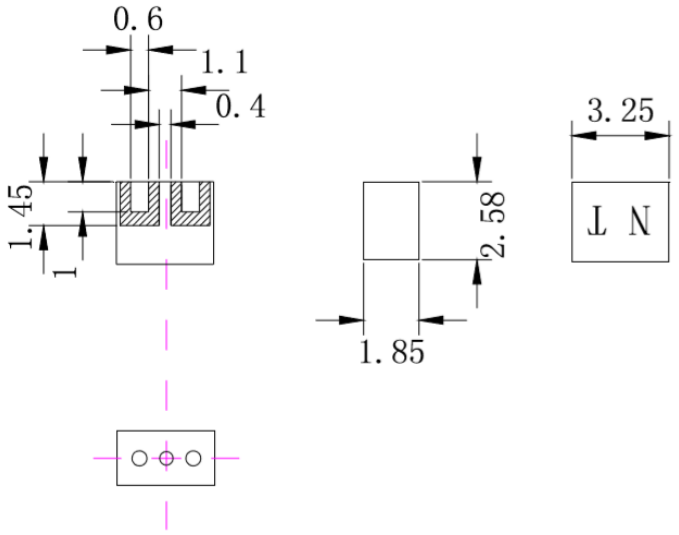
## 2. Specifications

TABLE 1

| Item | Unit | Specifications | Remark |
|---|---|---|---|
| Center Frequency (Fo) | MHz | 5670 | |
| Band Width (BW) | MHz | Fo ± 190.0 (5480~5860) | |
| Insertion Loss @ BW (25℃) | dB | 1.5 max. | |
| Insertion Loss @ BW (0℃~70℃) | dB | 2.1 max. | |
| RIPPLE @ BW | dB | 1.6 max | |
| Return Loss @ BW | dB | 10 min | |
| STOP-BAND Attenuation | dB | 25 min. at 2300~2700 MHz | |
| | | 19 min. at 5140~5340 MHz (25℃) | |
| | | 17 min. at 5140~5340 MHz (0℃~70℃) | |
| Impedance (Zo) | Ω | 50 | |
| Input Power | W | 1.0 max. | |
| Operating Temperature | ℃ | -40 to +85 | |
| STOP-BAND Attenuation specifies the absolute value of attenuation | | | |

## 3. Dimensions

### 3-1 SHAPE AND DIMENSION



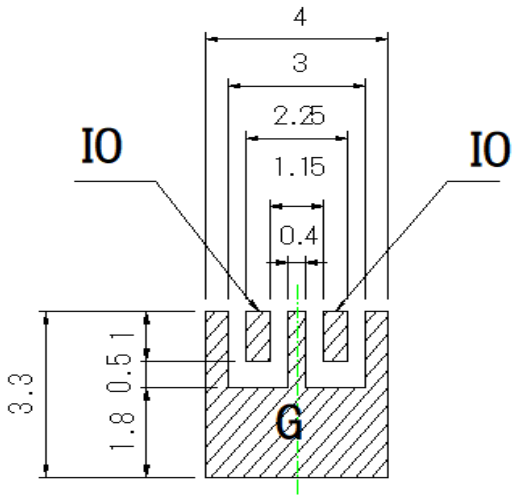

Dimension in mm

Tolerance: ±0.2

### 3-2 PCB RECOMMENDED PATTERN FOR FILTER

Note: Test PCB material: Rogers 3.38, 0.5mm.

Note: the best layout goes away PCB edge.




Soder pads: I/O Pads must be connected to lines with 50Ω impedance.
In the application a termination of 50Ω must be realized.

## 4. Measured Plot Data

### Pass Band