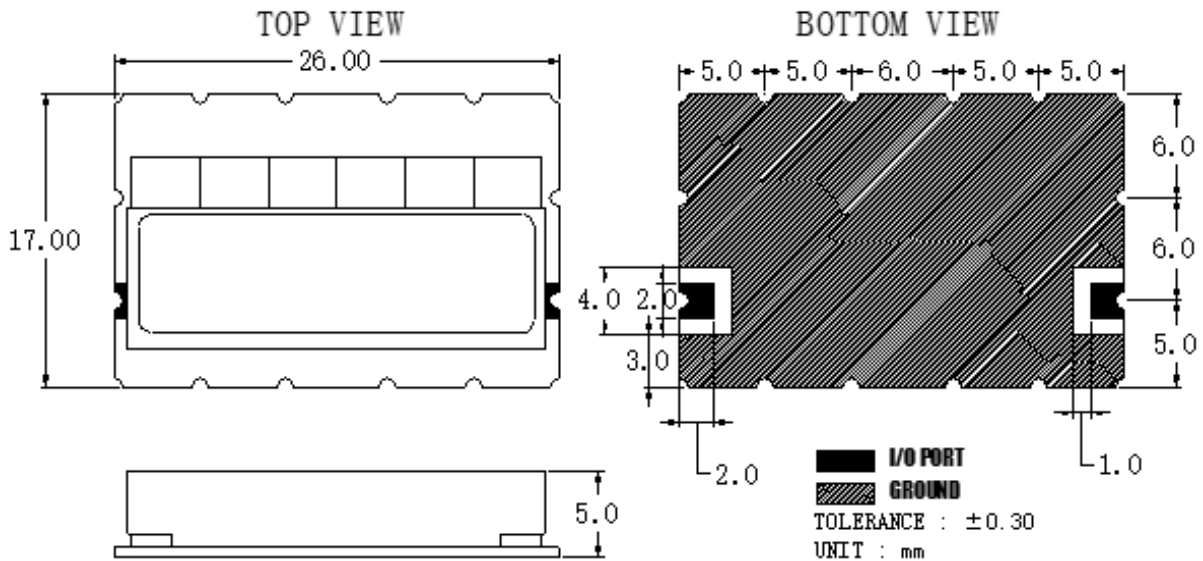


**HD34296**

**Ceramic Band Pass Filter**

PRELIMINARY SPECIFICATION

■ Mechanical Drawing



**Note**  
1. Connector : SMD  
2. Finish : Silver Plated

■ Electrical Specification

| Parameter                      | Specification             | Remark |
|--------------------------------|---------------------------|--------|
| 1. Center Frequency            | 700MHz                    |        |
| 2. Frequency Range             | $f_0 \pm 50$ [650~750]MHz |        |
| 3. Insertion Loss in Pass Band | 4.0dB Max.                |        |
| 4. Ripple in Pass Band         | 1.0dB Max.                |        |
| 5. Return Loss                 | 14B Min,                  |        |

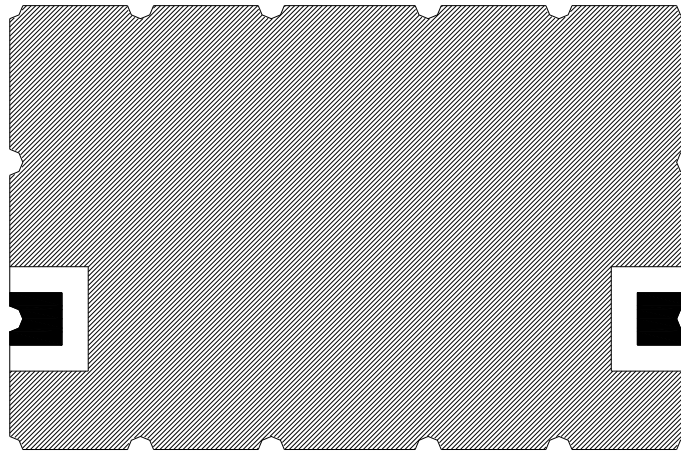
## HD34296

## Ceramic Band Pass Filter

|                                 |                          |    |
|---------------------------------|--------------------------|----|
| 6. Attenuation [Absolute Value] | 30dB Min. @ 250~350MHz   |    |
|                                 | 50dB Min. @ 450~550MHz   |    |
|                                 | 15dB Min. @ 600MHz       |    |
|                                 | 10dB Min. @ 800MHz       |    |
|                                 | 30dB Min. @ 850~950MHz   |    |
|                                 | 20dB Min. @ 1050~1350MHz |    |
| 7. Group Delay Variation        | 6ns Max.                 |    |
| 8. Input / Output Impedance     | 50Ω                      |    |
| 9. Power Handling               | 1W max                   | CW |
| 10. Mounting                    | SMD                      |    |
| 11. Operating temp              | -40 to +85°C             |    |

Remarks: This is a preliminary datasheet for reference.

### ■ RECOMMENDED PC BOARD PATTERN



Remarks: Recommend using silver-containing solder paste.