

## Features and Benefits

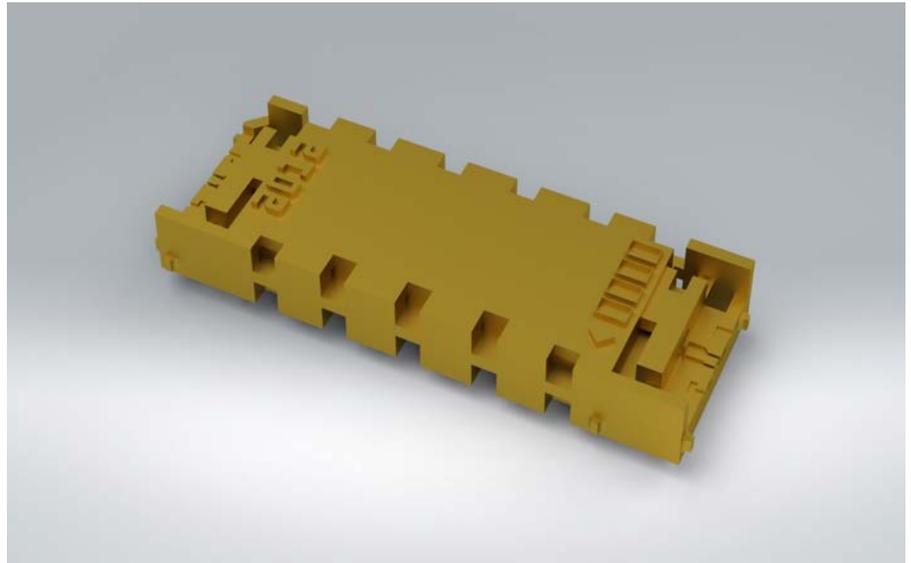
- **Small Size and Lightweight**
- **Near Ideal Performance**  
-Low insertion loss and high rejection
- **Precision**  
-Low part-to-part variation
- **Ease of Assembly**  
-Standard wirebond processes

## Applications

- **General Purpose BPF**

## Supplemental Documents

- **1032012\_ICD.STEP**  
- 3D Model
- **1032012.s2p**  
- S-parameters
- **1032012\_Footprint.DXF**  
- Recommended Land Pattern
- **1032012\_RVM.xlsx**  
- Requirements Matrix



## 29.565 - 40.355 GHz Bandpass Filter

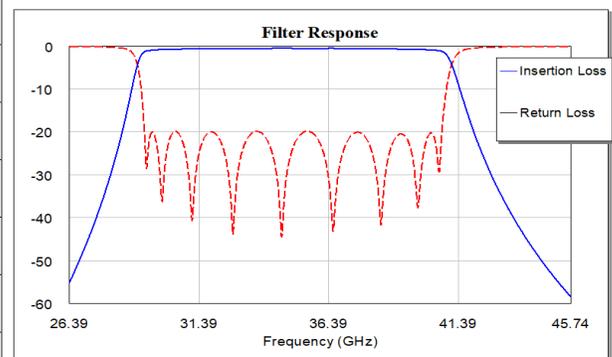
### Wirebond ID206 Filter

#### Description

This filter is part of the StrataWorks ID206 stackup family. It provides <2dB in-band insertion loss with high out of band rejection. The mounting interface provided is a wirebond interface compatible with standard attach processes.

## Typical Electrical Performance

| Parameter               | Unit     | Frequency Range (GHz) | Min        | Typ | Max |
|-------------------------|----------|-----------------------|------------|-----|-----|
| Passband Insertion Loss | dB       | 29.565 - 40.355       | -          | 1.5 | 2   |
| Passband Return Loss    | dB       | 29.565 - 40.355       | 10         | 18  | -   |
| Lower Rejection 1       | dBc      | 2 - 19                | 46.5       | -   | -   |
| Lower Rejection 2       | dBc      | 19 - 22.855           | 42         | -   | -   |
| Lower Rejection 3       | dBc      | 22.855 - 28.065       | 17.5       | -   | -   |
| Upper Rejection 1       | dBc      | 41.7 - 42.5           | 8          | -   | -   |
| Upper Rejection 2       | dBc      | 42.5 - 45             | 23         | -   | -   |
| Upper Rejection 3       | dBc      | 45 - 50               | 35         | -   | -   |
| Pass Band Flatness      | dB (p-p) | 29.565 - 40.355       | 2.25 (p-p) | -   | -   |



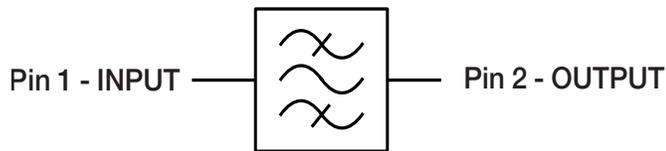
### Additional Details

| Special Handling / Storage Instructions |                          |
|---|--------------------------|
| Storage                                 | IAW IPC-4553A            |
| ESD Sensitivity                         | None                     |
| Moisture Sensitivity                    | IPC/JEDEC J-STD-033 MSL1 |
| Ordering Information                    | PSF1032012               |
| Standard Packaging                      | Gel Pak                  |
| Alternative Packaging Available         | Tape and Reel            |
| Component Termination Finish            | Immersion Gold           |

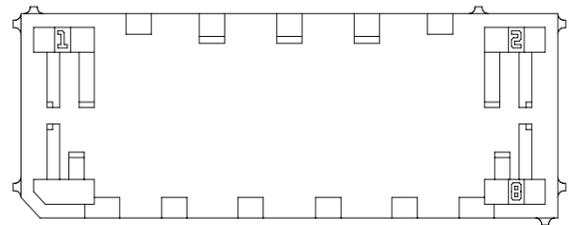
### Environmental/Mechanical Ratings

|  |                                     |
|--|-------------------------------------|
| Power  | 5W                                  |
| Operating Temp                                 | -40°C to 85°C                       |
| Solder Reflow                                  | 260°C max. for 10 seconds, 3 cycles |
| Epoxy Attach                                   | 150°C max. for 90 minutes           |
| Mech. Vibration MIL-STD-883 M2026.4 (Cond. 1K) | 45.0 Grms                           |
| Mech. Vibration MIL-STD-883 M2002.4 (Cond. B)  | 1500 G                              |

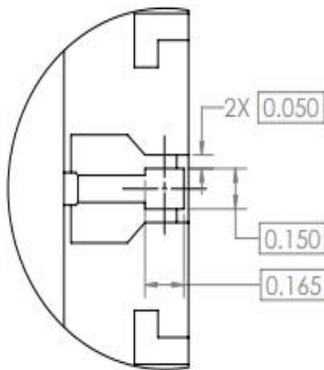
### Simplified Block Diagram



### Component View

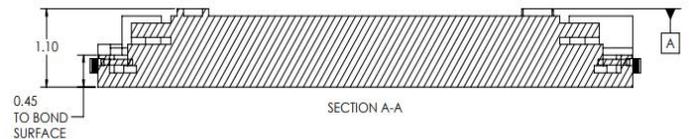


### Wirebond Launch

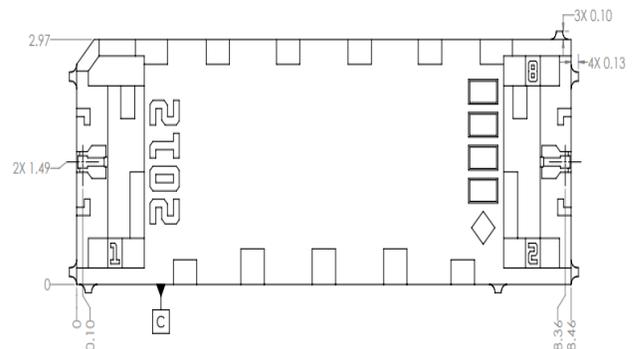


### Mechanical Drawing

#### Side



#### Top



\*All Dimensions in mm