









## EWF2602AK

### Features

-  Pass Band Performance: 25.5 to 26.5 GHz
-  Insertion Loss: 3 dB, typical
-  Return Loss: 15 dB, typical
-  Low Side Reject Band: Less than 23 GHz
-  High Side Reject Band: Greater than 29 GHz
-  Rejection 20 dBm, typical
-  Package size: 7 x 7mm, 28 lead, QFN Air Cavity
-  RoHS Compliant

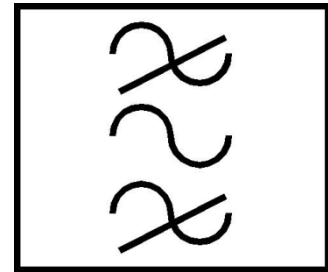
### Device Photo



### Description

Endwave's *EWF2602AK* is a band pass filter which provides very consistent rejection bands and achieves repeatable performance not otherwise achieved in fully SMT applications. Low insertion loss is 3 dB typical with pass band return loss typically 15 dB. The device can be used for a wide range of applications from defense electronics to commercial communication systems. All parts are tested and visually inspected to IPC-A-610.

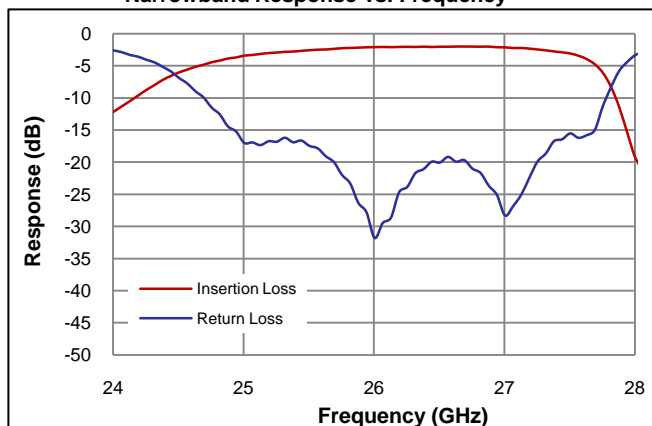
### Block Diagram



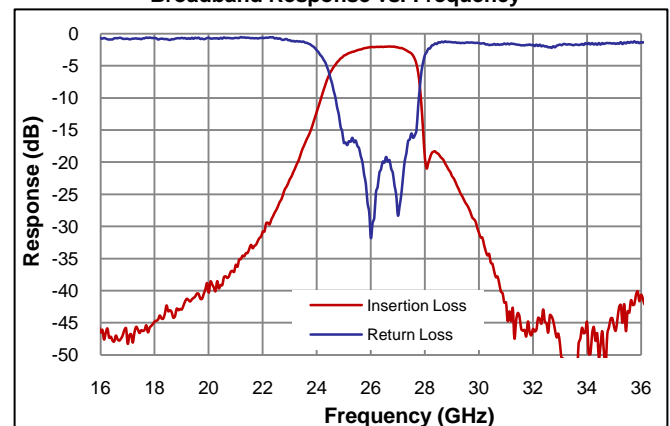
### Electrical Characteristics (Temperature = +25 °C)

| Parameter                          | Min. | Typ. | Max. | Units |
|------------------------------------|------|------|------|-------|
| Pass Band Frequency                | 25.5 |      | 26.5 | GHz   |
| Insertion Loss                     |      | 3    | 5    | dB    |
| Input & Output Return Loss         | 10   | 15   |      | dB    |
| Low Side Rejection Frequency Band  |      |      | 23   | GHz   |
| High Side Rejection Frequency Band | 29   |      |      | GHz   |
| Rejection                          | 15   | 20   |      | dB    |

Narrowband Response vs. Frequency



Broadband Response vs. Frequency



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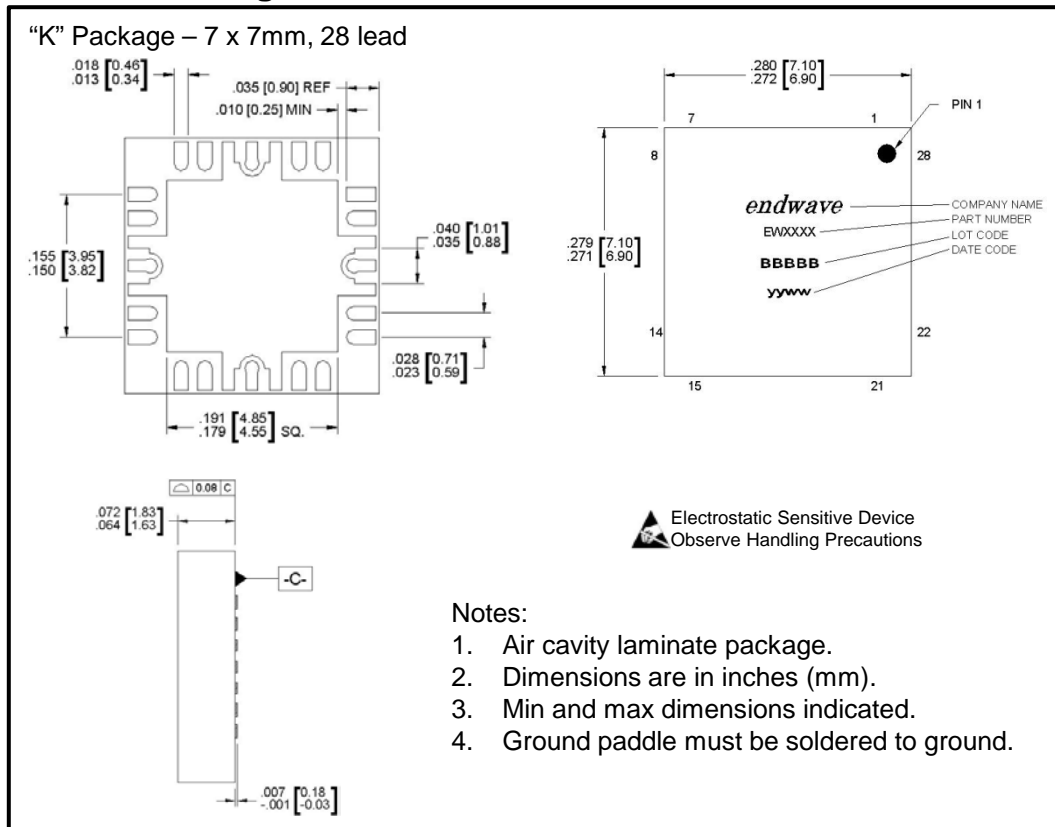
May 2010– Rev 1

*Preliminary*

### DC & RF Pinout

| Pin Number                             | Function      |
|----------------------------------------|---------------|
| 11                                     | RF In         |
| 25                                     | RF Out        |
| 3, 5, 10, 12, 17, 19, 24, 26, paddle   | Ground        |
| 1, 2, 4, 6-9, 13-16, 18, 20-23, 27, 28 | No connection |

### Outline Drawing



### Absolute Maximum Ratings

|                       |               |
|-----------------------|---------------|
| Storage Temperature   | -65 to +150°C |
| Operating Temperature | -40 to +85°C  |

### Support Documentation

Support documentation including Assembly Notes, Application Notes and Qualification Procedures can be found on our website at [www.endwave.com](http://www.endwave.com).

### Ordering Information

| Part Number | Description                                       |
|-------------|---------------------------------------------------|
| EWF2602AK   | RoHS compliant, 7 x 7mm, 28 lead, QFN "K" package |