








## EWF4203AK

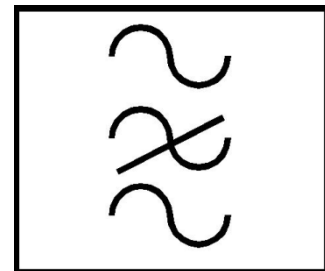
### Features

-  Pass Band: 42 to 47 GHz
-  Insertion Loss: 3 dB, typical
-  Return Loss: 15 dB, typical
-  Reject Band: 38.1 to 40.1 GHz
-  Rejection : 22 dB, typical
-  Package size: 7x7 mm, 28 lead QFN, Air Cavity
-  RoHS Compliant

### Device Photo



### Block Diagram



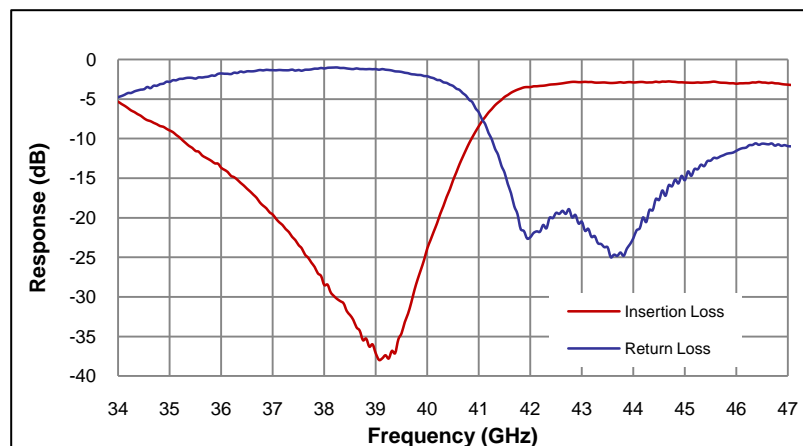
### Description

Endwave's *EWF4203AK* is a band stop filter which provides a very consistent rejection band 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.

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

Parameter	Min.	Typ.	Max.	Units
Pass Band Frequency	42		47	GHz
Insertion Loss		3	5	dB
Input & Output Return Loss	10	15		dB
Rejection Band Frequency	38.1		40.1	GHz
Rejection	12	22		dB

Response vs. Frequency



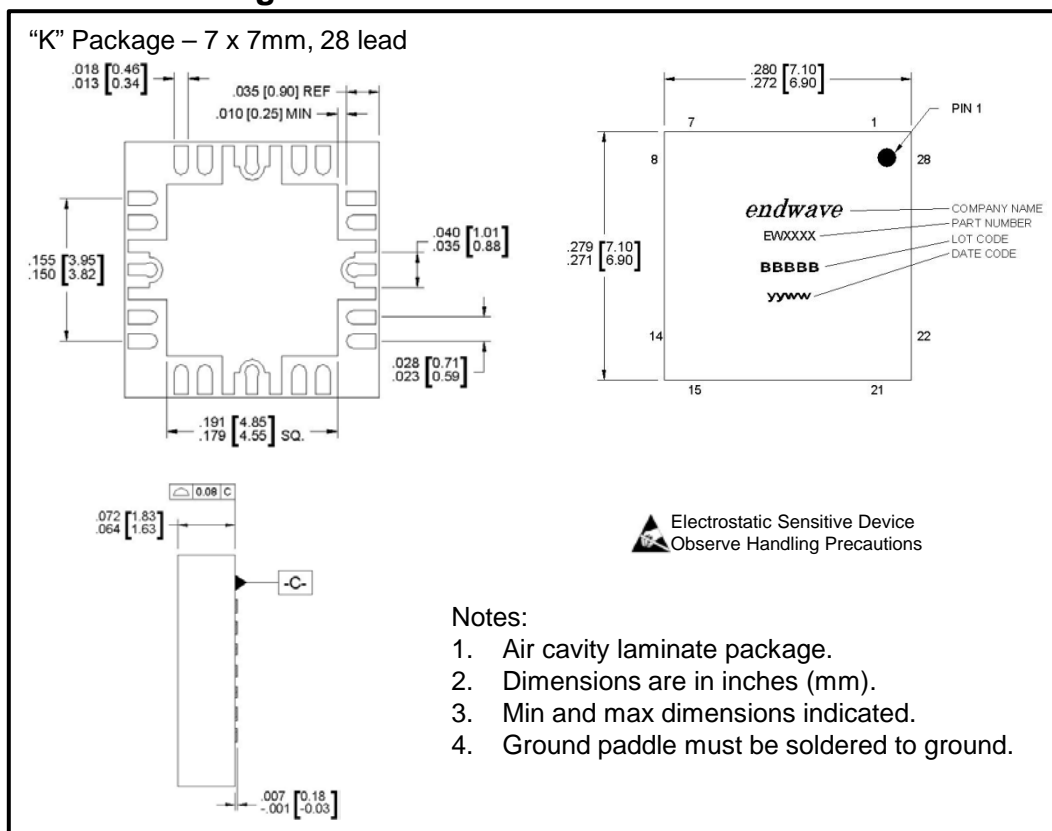
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*Preliminary*

### 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
EWF4203AK	RoHS compliant ,7 x 7mm, 28 lead, QFN "K" package