








EWF4201AK

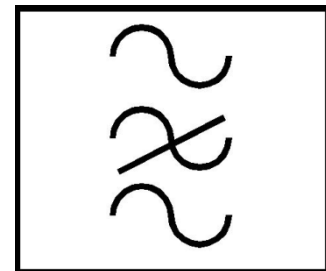
Features

-  Pass Band: 40.5 to 47 GHz
-  Insertion Loss: 3 dB, typical
-  Return Loss: 15 dB, typical
-  Reject Band: 36.6 to 38.6 GHz
-  Rejection: 22 dB, typical
-  Package size: 7x7mm 28 lead, QFN Air Cavity
-  RoHS Compliant

Device Photo



Block Diagram



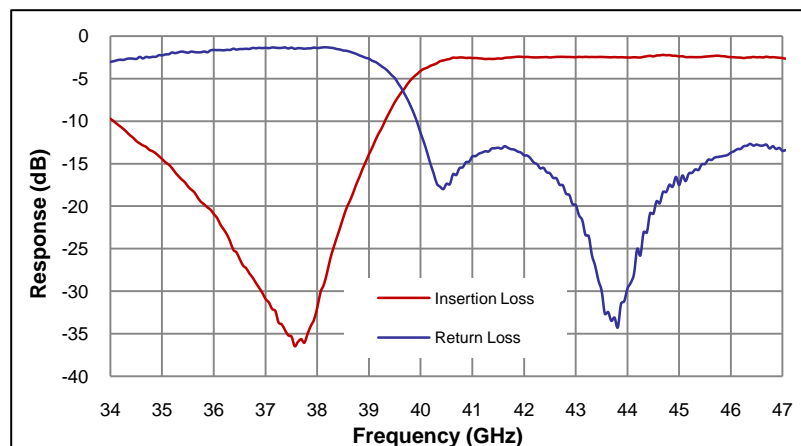
Description

Endwave's *EWF4201AK* 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	40.5		47	GHz
Insertion Loss		3	5	dB
Input & Output Return Loss	10	15		dB
Rejection Band Frequency	36.6		38.6	GHz
Rejection	12	22		dB

Response vs. Frequency



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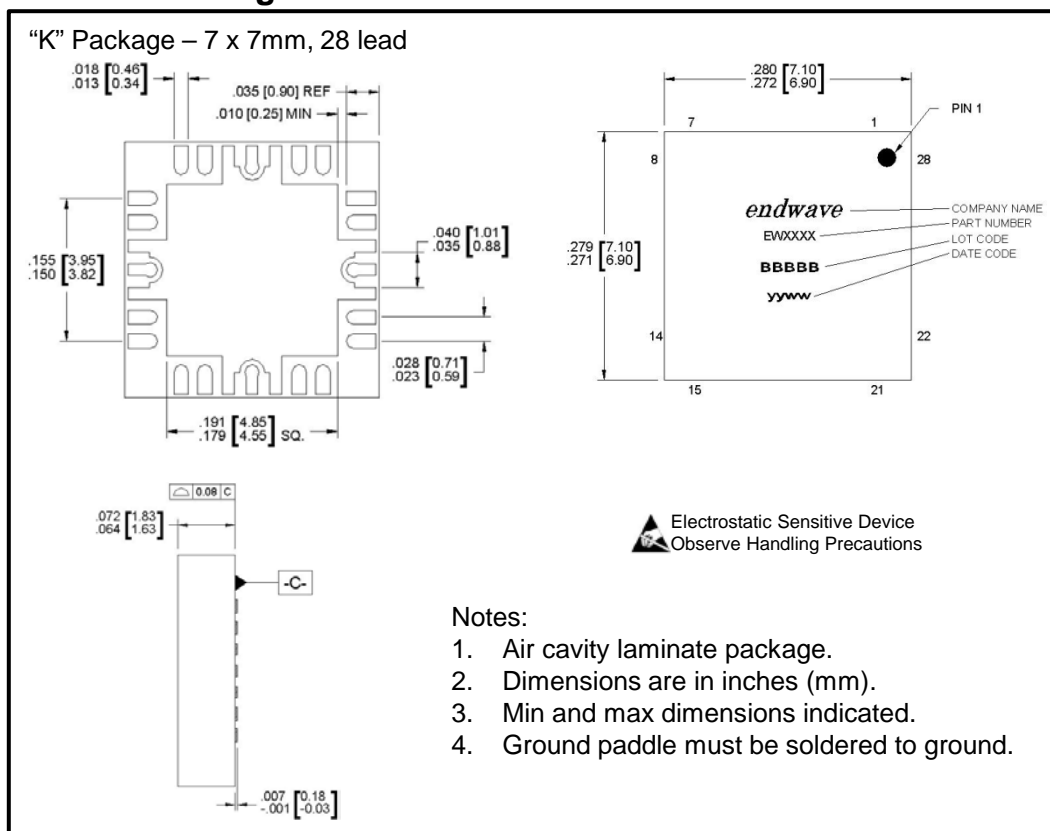
May 2010– Rev 1

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.

Ordering Information

Part Number	Description
EWF4201AK	RoHS compliant, 7 x 7mm, 28 lead, QFN "K" package