DESCRIPTION

The CGY2134UH/C1 is a high performance GaAs Power Amplifier MMIC designed to operate in the K band.

The CGY2134UH/C1 has an output power of 22 dBm at 1 dB compression point. The small signal gain is 28 dB. The Input and Output Return Loss is better than 8 dB. It can be used in Radar, Telecommunication and Instrumentation applications.

The die is manufactured using OMMIC’s 0.13 µm gate length power PHEMT Technology D01PH. The MMIC uses gold bonding pads and backside metallization and is fully protected with Silicon Nitride passivation to obtain the highest level of reliability.

This technology has been evaluated for Space applications and is on the European Preferred Parts List of the European Space Agency.

APPLICATIONS

- Radar
- Telecommunication
- Instrumentation

FEATURES

- Operating Range : 18 GHz to 23 GHz
- Output P1dB : 22 dBm
- Gain : 28 dB
- On Chip 50 Ω Input and Output Matching
- Input Return Loss : > 8 dB
- Output Return Loss : > 8 dB
- Power Supply : 300 mA @ 4.5 V
- Chip size = 3.5 x 1.5 x 0.1 mm
- Device Availability (Q3 2011) :
  - 100 % Tested Known Good Die (KGD)
  - Demonstration Boards
  - Space and MIL-STD MMICs

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<th>CGY2134UH/C1 Amplifier Block diagram</th>
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