

Ultra Low Noise K-band Amplifier

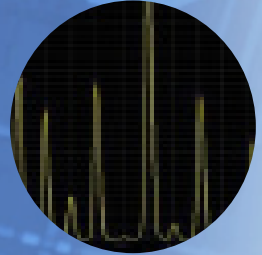
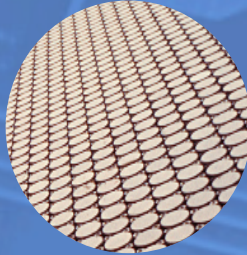
18-26GHz

CGY2121XUH/C2

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The CGY2121XUH/C2 has an exceptionally low noise figure of 1.2 dB with a very flat 19 dB of gain (± 0.4 dB). The on chip matching provides 12 dB of Input Return Loss and 11 dB of Output Return Loss. Thanks to the DC regulation the gain and noise are very stable wrt temperature change. It can be used in Radar, Telecommunication and Instrumentation applications.



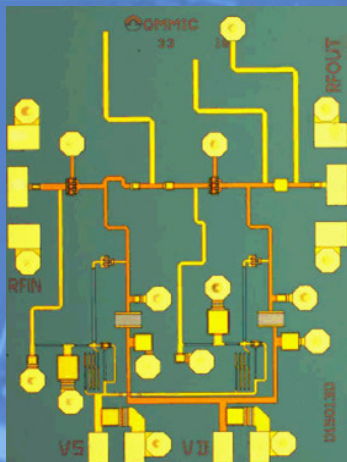
The die is manufactured using OMMIC's Advanced 70 nm gate length high Indium content MHEMT Technology. The MMIC uses gold bonding pads and backside metallization and is fully protected with Silicon Nitride passivation to obtain the highest level of reliability.

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Features

Operate Frequency Range	From 18 to 26 GHz
Flat Gain	19dB (+/-0.4dB) overall bandwidth
Noise Figure	< 1.5 dB on overall bandwidth (1.2dB at 22GHz)
Single Positive & Negative Supply	(+ and -1.5V)
Low Consumption	< 92mW
OP1dB	> 5dBm (7dBm@22GHz)
Robust	Max +19dBm CW Input Power
50 Ohms Input & Output Matched	
Input Return Loss	> 12 dB at 22GHz
Output Return Loss	> 11 dB at 22GHz
Die Size	1.5 x 2.0 mm





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