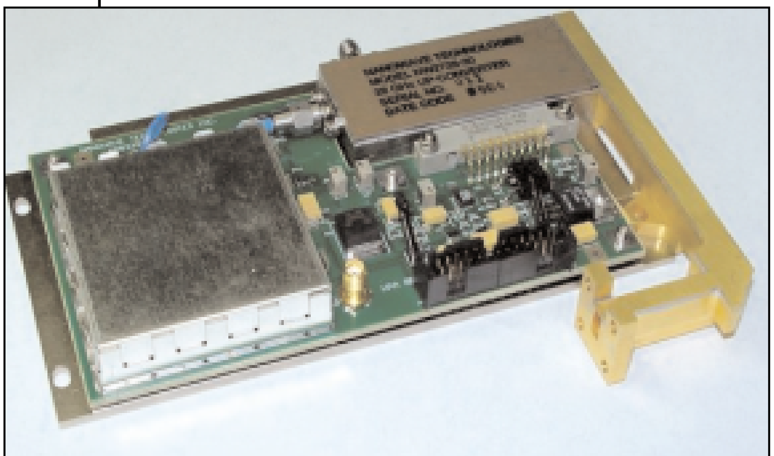
NANOwave TECHNOLOGIES INC.

LMDS UP-CONVERTER



FEATURES

- 26 - 31 GHz Transmit Frequency
- LS Band IF Interface
- High Linearity
- Gain/Temperature Control
- AGC
- Temperature-controlled Output
- Power Detector
- Low Output Spurious
- Low RX Band Spurious
- X/KU Band LO

PERFORMANCE

• Output Power (P1dB):	+ 27 dBm
	+ 30 dBm
	+ 33 dBm
	+ 35 dBm
• Small Signal Gain:	50 dBm min
• 3rd Order products:	- 30 dBc min
• AGC:	0.2 V/dB
• Operating Temperature:	- 40 to +70°C

PACKAGING

- Hermetic YAG Laser Sealing
- Connectorized IF Interface
- Waveguide Microwave Interface
- Low Profile
- Thermally Efficient Packaging

APPLICATIONS

- Wireless Internet Communications

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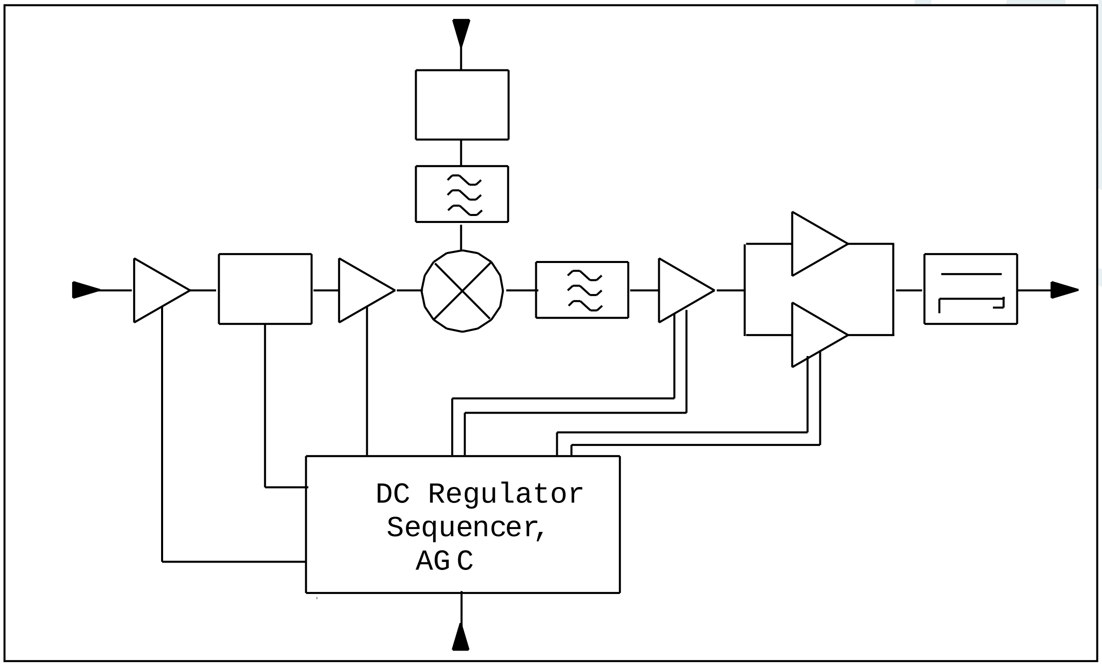
OUTLINE DIAGRAM



CHARACTERISTICS

TRANSMITTER

Tx Frequency	27.0 – 31.5 GHz
IF Frequency	0.9 – 1.4 GHz
IF Input Power	- 20 ± 5 dBm
Output Power	31 dBm @ P1dB – 1dB
Output Power Flatness	± 1 dB over 300 MHz ± 2 dB over full band
AGC Range	Maintain set point of output power over input dynamic range and temperature.
Output Power Adjustment	From P1dB – 15dB to P1dB – 1dB
In-Band Spurious	- 60 dBc
Out-of-Band Spurious	- 30 dBc
Two-Tone IM3 Products	25 dBc with two carriers @ + 29 dBm each
Operating Temperature Range	- 40°C to + 65°C
LO Power	+ 10 to + 15 dBm
LO Frequency	13.5 GHz
Output Connection	WR-28
Input/LO Connection	SMA - Female
Output VSWR	2.0:1 max
IF & LO VSWR	2.5:1 max
AGC Voltage	0.25 V/dB
DC Power	12 V@ 2A

Specifications are subject to change without notification. Consult Nanowave Technologies, Inc. for specific applications/requirements.