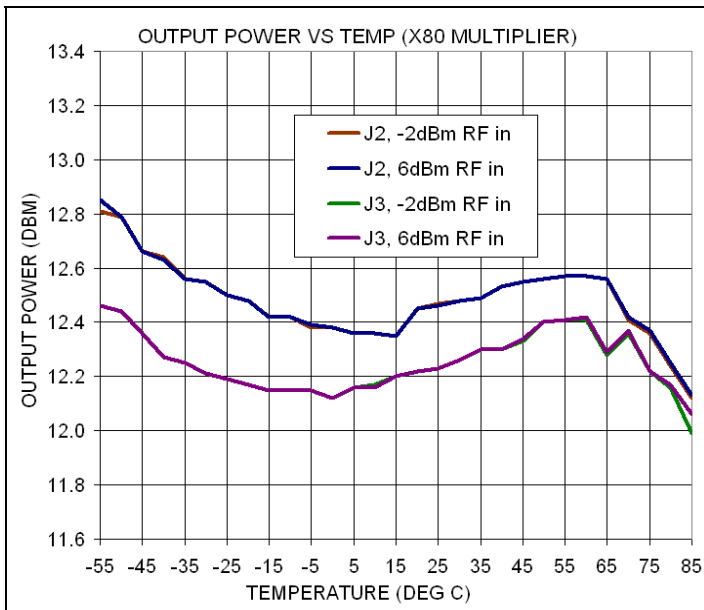


ALMX09-0016
X 80 Multiplier – 200 MHz Input, 16 GHz Output



X 80 Multiplier
200 MHz Input, 16 GHz Output

Applications

- LO Sources for Converters
- Frequency Synthesizers
- Radar Systems
- Communication Systems

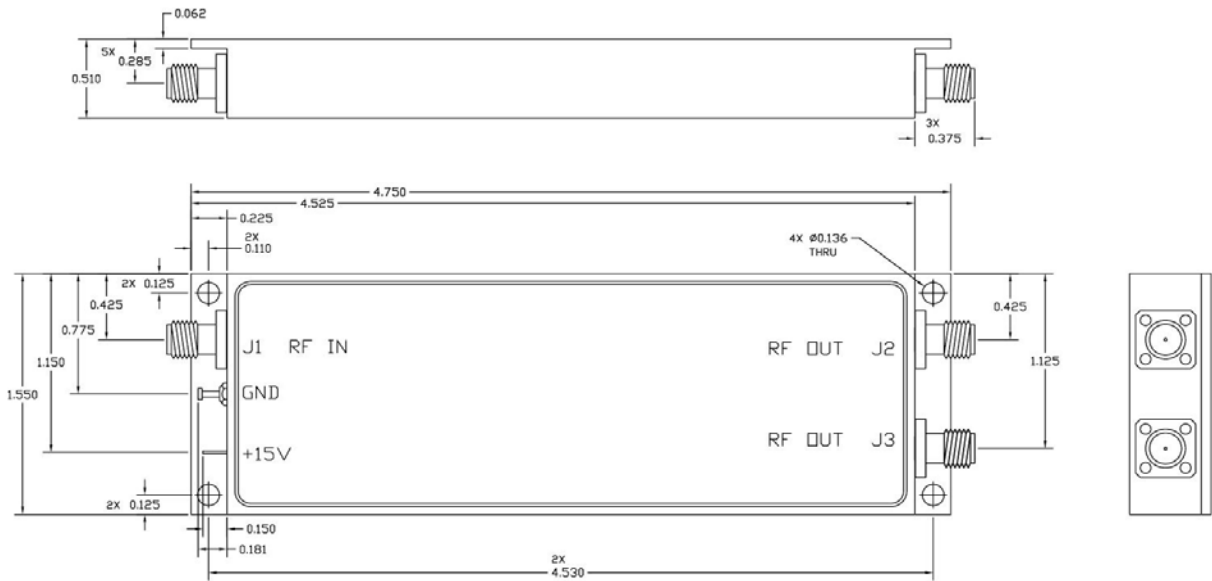
Features

- Low additive phase noise
- Low output power variation
- Low spurious and harmonic outputs
- Temperature compensated
- Single bias with low DC current consumption
- Hermetic design
- Compliant to MIL-STD-202
- Design Flexibility for Input Frequency, Multiplication options of :
 - 200 MHz (x 5, x 20)
 - 1 GHz (x 4, x 16)
 - 4 GHz (x 4)
- Options for single or multiple frequency outputs



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RF Integrated Solutions



Parameter	Specification
Frequency Range	200 MHz Input, 16 GHz Output, 1 % Bandwidth
Input Power	0 ± 2 dBm
Output Power	12 ± 1 dBm over temperature and bandwidth
Number of Outputs	Two
Amplitude Balance between Outputs	1 dB
Harmonics of Input Frequency	-40 dBc minimum
Harmonics of Output Frequency	-30 dBc minimum
Non-Harmonic Spurious Output	-70 dBc minimum
Phase Noise at 1 kHz, 10 kHz, 100 kHz offset	2 dB, 5 dB, 1 dB above theoretical $20 \log_{10} N$
Return Loss	-20 dB minimum input, -15 dB minimum output
DC Power	+15 V @ 300 mA
RF Connectors	SMA Female
DC Connections	0.020" diameter Solder Pin
Operating Temperature	-55 °C to +85 °C
Environmental	Compliant to MIL-STD-202
Seal	Laser Welded – 100% Fine Leak Tested

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