

Product Specification Summary

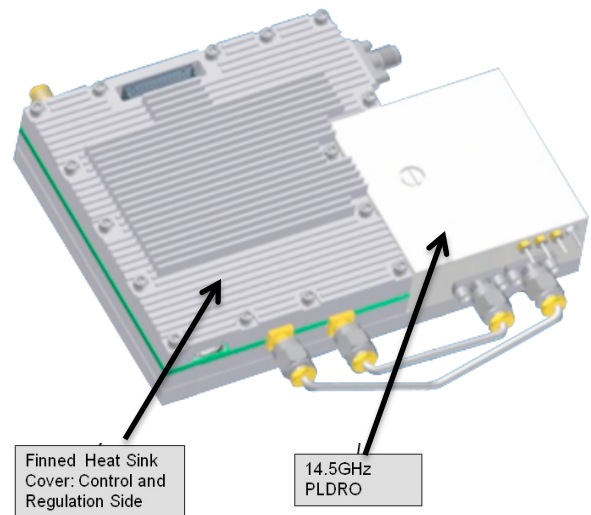
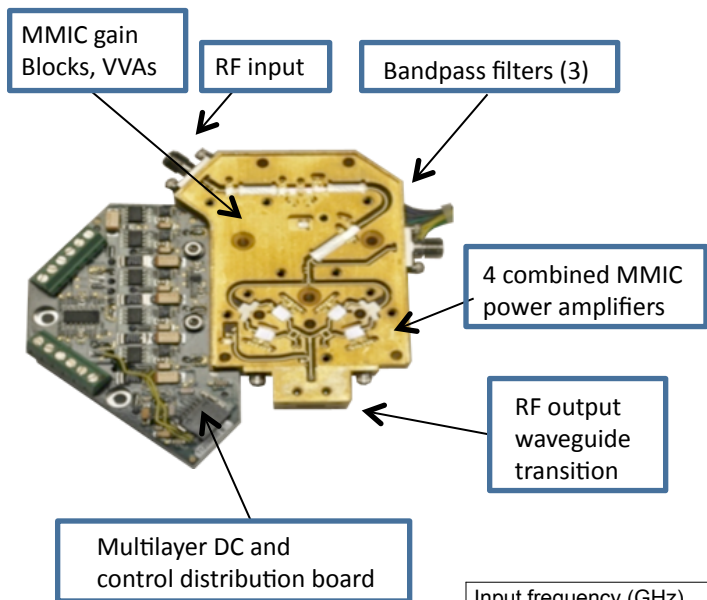
Ka-band BUC with 5 Watt SSPA

Model 10517

The Model 10517 is a Ka-band block upconverter with integral 5-W solid-state power amplifier that are combined in an extremely rugged, compact, lightweight package. It is an excellent choice for incorporation within a transceiver or as a stand-alone, multifunction module. The module includes power supply and management functions as well as comprehensive protection circuitry. It employs Narda's Ultimate MIC design fabrication techniques that combine DC control and distribution functions along with high-frequency circuits in a small footprint while maintaining extremely high isolation.

Key features

- Complete Ka-band block upconverter and 5-W SSPA in compact package
- Operates from 30 to 31 GHz
- 5 W linear RF output
- Excellent spectral characteristics
- SSPA has integrated mute control, temperature sensor, RF input bandpass filter, and RF power detector
- Operates from +28 VDC 2.55 A



Input frequency (GHz)	1 to 2
Output frequency (GHz)	30 to 31
Maximum input power (dBm)	-42 to -20
P1 dB RF power output (W)	5
Conversion gain (dB)	-57
Conversion flatness (dB)	+/-0.75 or less
Spectral regrowth (dBc)	-34 at -37 dBm output, 1 symbol rate, OQPSK signal
LO leakage (dB)	-83.4 at rated output power
Harmonic suppression (dBc)	-60
Return loss (dB)	22.5 (input), 10.5 (output)
Maximum phase noise (dBc/Hz)	
10 Hz offset	-37
10 kHz offset	-101.5
100 kHz offset	-102.97
1 MHz offset	-115.8
DC power (VDC @ A)	+28 @ 2.55

Please consult the factory for detailed product specifications.

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