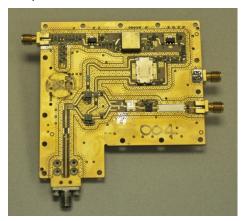
## **Product Specification Summary**

## **Ka-band Block Upconverter**

This Ka-band block upconverter module designed for single-carrier use in satellite communications terminals incorporated in a military vehicle. It is ruggedly built and withstands temperature, humidity, shock, and vibration extremes encountered in deserts and other hostile terrain.

The module is designed using Narda's unique fabrication techniques that isolate microwave circuits on one side of the module and DC and control circuits on the other, providing high isolation and reducing size and weight. The unit will meet performance specifications into a VSWR of 1.5:1 over the rated temperature and frequency ranges and has excellent spectral characteristics.



RF and microwave side of module

## **BUC/BDC Series**

## **Key features**

- Designed for use in single-carrier SATCOM terminals
- Rugged design for vehicle-mounted satcom terminals
- Handles extreme temperature, shock and vibration conditions
- Excellent spectral characteristics
- Employs Narda Ultimate MIC fabrication techniques that optimize performance, reliability, and ruggedness, and reduce size and weight



DC and control circuit side of module

Input frequency (GHz)	1 to 2
Output frequency (GHz)	30 to 31
Conversion gain (dB)	-5
Conversion flatness (dB)	+/-0.5 or less
Spectral regrowth (dBc)	-47 at -32 dBm output, OQPSK signal
LO leakage (dB)	-52 at 29 GHz
Harmonic suppression (dBc)	-60
Input/output return loss (dB)	At least 19
Maximum phase noise (dBc/Hz)	
10 Hz offset	-52
100 kHz offset	-77
100 kHz offset	-106
1 MHz offset	-144
DC power (VDC @ mA)	+28 @ 3

Please consult the factory for detailed product specifications.



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