

Product Specification Summary

Quad-Band (C, X Ku, and Ka) Direct Synthesis LO

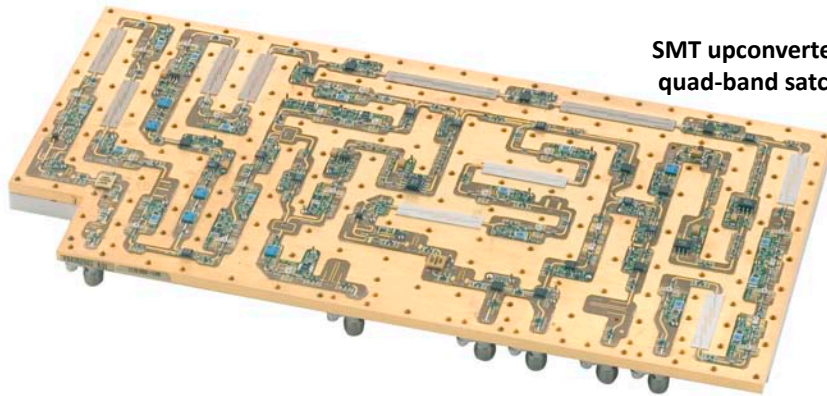
This unit produces LO frequencies for C, X, Ku, and Ka satellite transmission bands. The direct-synthesis design uses two microwave reference signals produced by two PLDRO's to produce seven LO frequencies for the converters by arithmetic operations on the reference frequencies using fixed-tuned filters, RF switches, mixers, multipliers, and dividers.

The units have very low phase noise, fast switching speeds, and spurious rejection of at least -75 dBc. They are fabricated using SMT components and assembly techniques, are highly repeatable, and offer outstanding long-term performance in hostile environments.

SATCOM Series

Key features

- Provides seven LO output frequencies in C, X, Ku, and Ka bands in single unit
- Extremely low phase noise and high spurious and harmonic rejection
- Custom configurations and specifications available
- Compact and rugged and stable, reliable, long-term performance in hostile conditions
- Low-cost, repeatable SMT components and construction



SMT upconverter for Narda's Model XXX for quad-band satcom synthesizer

Input frequencies (GHz)	4.9 and 6.0
Output frequencies (GHz)	C-band: 4.9 X-band: 6.95 Ku-band: 12.8 Ka-band: 14.5
Output power (dBm)	5 ±1
Typical phase noise (dBc/Hz)	
100 Hz offset	-80
1 kHz offset	-107
10 kHz offset	-116
100 kHz offset	-120
1 MHz offset	-135
Spurious rejection (dBc)	>-75

Please consult the factory for detailed product specifications.

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