Product Specification Summary Direct Digital Synthesis (DDS) Synthesizer for Ka-band SATCOM

Narda's Ka-band Direct Digital Synthesizer (DDS) is one of a family of synthesizers that combine the sub-Hz step resolution and fast switching agility available with a DDS. The unit's low-frequency, narrowband DDS output is translated and expanded to 24.8 to 25.2 GHz with Narda direct and indirect synthesizer circuits to provide resolution of 1 Hz or less and high-speed switching. They can be designed for operation up to 40 GHz.

SATCOM Series

Key features

- Combines fine step resolution with extremely fast switching speed of less than 300 ns
- · Extremely low phase noise
- High spurious and harmonic rejection
- Custom configurations and specifications available

Narda's Ka-band DDS synthesizer



Input reference frequencies (MHz) 10

Output frequency range (GHz) 24.8 to 25.2

Output frequency step size (MHz) 1

Frequency transition time (ns) Less than 300

Typical phase noise (dBc/Hz)

100 Hz offset -70

1 kHz offset -88

10 kHz offset -105

100 kHz offset -116

1 MHz offset -132

Spurious rejection (dBc) >55

Please consult the factory for detailed product specifications.



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