UPN Series
PRODUCT SERIES OVERVIEW

0.9” Programmable Frequency Synthesizer
50 MHz to 10 GHz (In-Bands)

FEATURES
• Exceptionally-Low Phase Noise
• Programmable Frequencies to 10 GHz
• Robust Designs for Extended Temperature and High Vibe Environments Available

SPECIFICATIONS
Frequency Range.........................50 MHz to 10 GHz
Bandwidth...............................≤67% to 2 GHz
...........................................≤33% to 4 GHz
...........................................≤20% to 10 GHz
Step Size...............................down to 100 KHz
External Reference....................5 to 200 MHz
Power Output..........................up to +14 dBm
Harmonics..............................<-20 dBC
Spurs.................................<-60 dBC
Supply Options.........................+3.3, +5 VDC
Current.................................≤200 mA

Phase Noise (dB/Hz)..............6000 MHz 8000 MHz
1 KHz Offset ......................<-93 <-84
10 KHz Offset ......................<-97 <-85
100 KHz Offset.......................<101 <-91
1 MHz Offset .......................<-124 <-120

Temperature Ranges (Operating)
Standard..............................-20°C to +60°C
Other Available Ranges..............-30°C to +70°C
...........................................-40°C to +85°C

Package Size.............................0.9” x 0.9” x 0.21”
...........................................(22.9 x 22.9 x 5.3)mm

Note: All specifications are typical unless otherwise specified and subject to change without notice. Not all performance parameters are available in combination with certain specifications. E.G. Not all power output levels are available at all frequency ranges.

PACKAGING OUTLINE

Notes:
1. Tape-and-Reel available for high volume quantities.
2. Demo boards and Reference Modules available.
3. All dimensions are in inches unless otherwise specified.
4. Diagrams and pictures shown are examples only.

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Specifications may change without notice.