MODULAR SEVEN CHANNEL INDIRECT SYNTHESIZER

TECHNICAL FEATURE

FEATURES

- Up to Seven Independent Synthesizers with Dual Phase Matched Power Outputs
- VITA 48.2 VPX Package and Backplane Configuration
- Output Power is Auto-Calibrated and Adjustable
- Low Integrated Phase Noise
- Internal Built-in Test Functions

PERFORMANCE

Output Frequency Range.....S and C-bands
DC Power ..... <22 Watts(7 channels)
Output Power Flatness ..... +/- 0.5 dB max
Channel Tracking/Temperature..... 1 dB
BITE Function.....Temp/RF Pwr/Lock/Ref. Fault/Internal DC
Channel to Channel Isolation.....>75 dB
Spurious..... < -65 dBc
Phase Noise .....1.25° rms DSB
RF Connection Interface .....SMPM Blind Mate
Operating Temperature Range..... -40 to +85°C
Package Size..... Vita 48.2, Type 1

DESCRIPTION

This Synthesizer incorporates advanced features providing exceptional unit performance and functional integration. Up to seven independent frequency synthesizers with dual phase matched outputs are contained within the VPX configuration package. Exceptional signal fidelity is achieved through the use of high performance VCOs and low noise circuit design.

The unit contains advanced control features provided through the high-speed VPX backplane. A modular advanced surface mount design has been utilized to optimize build cost and enhance performance repeatability. High reliability is obtained using careful device selection, tailored screening and hermetic seal of the entire module. In addition, a versatile programmable reference input will accept frequencies from 10 MHz to 1500 MHz.

This design and the incorporated technologies are customizable for specific customer's applications.

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