

SOQPSK Telemetry Demodulator



Applications

- Telemetry
- Compliance
- Field Training
- Simulation

Features

- Demodulates SOQPSK (optionally OQPSK or QPSK)
- Agile Data Rates 0.65 to 20 Mbps
- Intermediate Frequency of 70 MHz or 20 MHz
- Programmable Control, Local and Remote via IEEE-488 Bus
- Spectral Inversion Control
- Fault Messaging
- RCC-106-04 Compatible

Description

The Model 2120-501 is a high-speed demodulator designed to receive a family of modulation methods including SOQPSK, OQPSK and QPSK. It will yield low BER with the lowest possible C/N or corresponding E_b/N_0 to optimize the range/distance and the quality of the received data. The Model 2120-501 supports the RF Networks Model 2241 Diversity Branch Selector operation. SOQPSK signaling provides spectrally efficient point-topoint data reception suitable for operating on links serviced by non-linear amplifiers. It has been demonstrated to be a suitable replacement for PCM/FM receivers wherever increased data density is required from higher data rates or reduced spectral allocations. The RF Model 2120 operates without additional IF or RF filters and displays a robust bit error performance without the need for additional coding. All parameters are settable from the front panel or from the remote IEEE-488 bus.

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Model-2120-501 Datasheet

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