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8782B Vector Signal Generator, 1 MHz to 250 MHz

Obsolete

Technical Support

Calibration and Repair

Request Service

Overview and Features

Post-Purchase Upgrades

Resources

- 1 to 250 MHz IF testing
- BPSK, QPSK, 8PSK, 16QAM, 64QAM, 256QAM, 9PRS, 25PRS, 49PRS and 81PRS digital modulation, pulse, vector and scalar
- Arbitrary vector modulation with bandwidths up to 100 MHz (200 MHz typical)
- Simulates impairments such as quadrature error and phase lock error
- Unmodulated coherent carrier for demodulating IF signals
- Built-in pseudo random bit sequence (PRBS) generator

- Optional 1 GHz LO output for up-conversion to the 750 to 1250 MHz RF bands

The Keysight 8782B vector signal generator is designed to test digital microwave and RF receivers. It is a 1 MHz to 250 MHz synthesized signal generator with a wide range of digital modulations, as well as vector (analog I and Q), pulse and scalar (AM) modulation. A vector (I/Q) modulator is built-in. The analog I (In-phase) and Q (Quadrature-phase) inputs allow for arbitrary phase and magnitude modulation while digitally-coded information can be applied to the digital inputs either in parallel or serial. The Keysight 8782B has a built-in pseudo random bit sequence (PRBS) generator making digital modulation from BPSK to 256QAM possible without using external digital data sources. The Keysight 11846B pi/4 DQPSK I-Q generator can also be used to drive the analog I and Q inputs for testing North American dual mode digital cellular radio receivers. 50 MHz analog I and Q inputs , typically DC to 100 MHz, drive the vector modulator directly to control the magnitude and phase of the generator output. This allows you to generate arbitrary magnitude and phase modulation with bandwidths up to 100 MHz.

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