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## **Model 120A Ultra High Speed 2.5 Gb/s Data Sequence Generator**

**Model 120A is a broadband general purpose laboratory Data Sequence Generator, capable of data rates from 50 Mb/s to 2.5 Gb/s.**

- 2 instruments in one: clock multiplier (1X, 4X, 8X, and 16X outputs), and Data Sequence Generator.
- Built in synthesizer for OC-3, OC-12, OC-24, and OC-48 Data Rates.
- SONET/SDH Jitter compliant from OC-3 to OC-48 and STM-3 to STM-16.
- Data, Clock, and Clock/16 Trigger outputs.
- User defined rates from 50 Mb/s to 2.5 Gb/s with external synthesizer.
- Compatible with Model 420B Laser Transmitter for providing a high quality pseudo-random optical data source.

The Model 120A Data Sequence Generator is a very high speed, low jitter pseudo-random data source, designed for general laboratory use. The bench top or rack mounted instrument is AC line powered for any line source from 80 to 240 VAC.

The 120A generates clock and data at SONET/SDH data rates 2488, 1244, 622, and 155 Mb/s using the 120A's internal reference synthesizer.

The unit can also generate clock and data at user defined rates via an external reference port. The user may provide this reference by using a low cost, frequency synthesizer, taking advantage of the 120A's built-in clock multiplier. In this mode, the clock multiplier provides 1X, 4X, 8X, or 16X multiples of the external reference input frequency. The user may also provide a Data Gen Clock input directly at the bit rate, if desired.

The Trigger output (Clock $\div$ 16) is useful for digital sampling oscilloscopes, most of which cannot trigger at rates beyond a few hundred MHz.

The 120A meets SONET/SDH jitter generation standards from 155.52 Mb/s to 2.488 Gb/s (Reference Bellcore GR-253 and ITU G.957 specifications), making it ideal for production system compliance and proof-of-performance testing.

The BCP 120A is fully compatible with the Model 420B Laser Transmitter. The pair of instruments provides a cost effective, high quality optical data source for receiver test and qualification up to 2.5 Gb/s.

The unit will also find application in test equipment demonstration and evaluation with high speed digital sampling oscilloscopes, communication analyzers, optical sources, and production system testing. The 120A is compact, light-weight, and self contained, making it ideal for field, laboratory and production test and measurement applications.

## **Ordering Information**

### **Model 120A-AB**

A: Chassis Configuration

T = Table Top

R = Rack Mount

B: Output RF Connectors

S = SMA Female

N = Type N Female

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