Centellax News

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Miniature 12.5 Gb/s PRBS

SANTA ROSA, CALIF.—October 2003—Centellax Inc. this month announced the availability of a new Pseudo Random Bit Stream Generator (PRBS) designed for testing at data rates from DC to 12.5 Gb/s.

The new model TG1P1A has a "Perfect Eye" ™, and is designed to be used as the source for testing high-speed communication components and systems such as those used in OC-192/STM 64/ SDH/10 G Ethernet applications.



Features

At dimensions of just 3.5 in. by 3.5 in. by 1 in., the miniature PRBS allows the user to place the unit directly adjacent to a device under test, regardless of lab environment.

Performance features in this small package are very competitive with those of much larger, higher-priced sources on the market, including:

- Pattern Lengths of 2^{31}, 2^{23}, 2^{15}, 2^{10}, 2^{7}
- Mark/Density Ratios of 1/2, 1/4, 1/8
- Output Jitter Less than 1 ps RMS
- Rise/Fall Times Less than 30 ps
- Data Rates from DC to 12.5 Gb/s
- Error Detection is available in a Companion Box

Broadband Amp: 0.01 to 65 GHz

SANTA ROSA, CALIF.—October 2003—Centellax Inc. this month announced shipment of a new, general-purpose broadband amplifier covering a broad frequency range and featuring high output power, low power dissipation, and low noise figure.

The new model UA1L65VM Broadband Amplifier Module was designed to cover applications in microwave communications, test equipment and military systems; its versatility, power and

(see page 2)

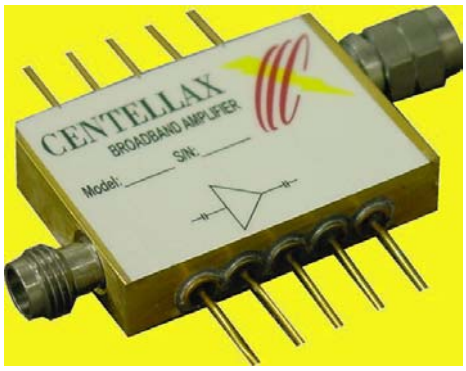
Broadband Amp Covers 0.01 to 65 GHz

small size combine to form a cutting-edge package the company believes outperforms all competitive units on the market.

Small Size, High Performance

At at little over 1 in. square, the UA1L65VM carries leading-edge performance in a micro-sized package. Performance features include:

- 23 dBm Saturated Output Power
- 27 dB Gain to 45 GHz
- Useful Gain to 65 GHz
- 4.5 dB Noise Figure
- Extremely Small Package Size: 1.31 in. by 1.16 in. by .5 in.



0.01 to 65 GHz Amplifier

44 Gb/s PRBS for Test Applications

SANTA ROSA, CALIF.—October 2003—Centellax Inc. this month announced the availability of a new competitively priced, portable Pseudo Random Bit Stream Generator (PRBS) designed for testing at data rates of 38 to 44 Gb/s.

The new model 4031A has a "Perfect Eye" ™, and is designed to be used as a source for testing high-speed communications components and systems such as those used in OC-768/ STM 256 applications. The unit, a fully self-contained pattern generator, is used in conjunction with a Digital Communications Analyzer (DCA) in stimulus/ response measurements of



40 Gb/s components and systems such as transimpedance amplifiers, driver amps, optical modulators, and demultiplexers.

Feature-Laden, Low Cost

With a package measuring 7 in. x 10 in. x 2.5 in.—roughly one-sixth the size of units offering comparable performance—Perfect Eye™ allows the user to place the unit directly adjacent to a device under test, regardless of lab environment.

Performance features in the unit are very competitive with those of much larger, higher-priced sources on the market, including:

- Less than 3 ps p-p Jitter
- Less than 7 ps Rise/Fall Time
- 40 or 44 Gb/s Data Rates
- 1.2 V Differential Output
- 2^7, 2^{15}, and 2^{36} Patterns
- Small Size: 7" x 10" x 2.5"

Centellax Names Sales Representatives

SANTA ROSA, CALIF.—— October 2003——Centellax Inc. this month announced the appointment of three additional sales representative organizations to supplement the company's existing rep network. The sales territories covered under the new agreements are Israel, the United Kingdom and Southern California.

Israel

Cidev Agencies (1973) Limited
22 Hamalache Street
Park Afek, Rosh-Ha'ayn
Israel
Tel: 972-3-902-0905
Fax: 972-3-902-6090
www.cidev.co.il
Contact: Yossi Blotman

United Kingdom

TMRF
P.O. Box 802
Southampton, S014 OFW
United Kingdom
Tel: 44-(0)2380-760769
Fax: 44-(0)2380-766473
Contact: Rafique Boswall

Southern California

Applied Technical Sales & Mktg
27130B Paseo Espada, Ste. 521
San Juan Capistrano, CA 92675
Tel: 949-240-7783
Fax: 949-240-7361
www.atsm.com
Contact: Tony Pina

Design Capability Expanded in Santa Rosa

SANTA ROSA, CALIF.—— Centellax Inc. this month significantly expanded product-design capabilities at the company's Santa Rosa headquarters.

Traditionally the home of Centellax's production facility and GaAs MMIC design group, the Santa Rosa facility now also houses the company's Mixed Signal IC design group, which is based on a Bi CMOS Silicon Germanium (SiGe) technology.

The company's consolidation of its major design teams into one facility was implemented to ensure optimal time-to-market in order to satisfy increased orders demand that began earlier this year, a spokesman said. For more information on Centellax's products, please contact Holger Stuehrmann: 623-330-3060, or Centellax toll-free at 866-522-6888.

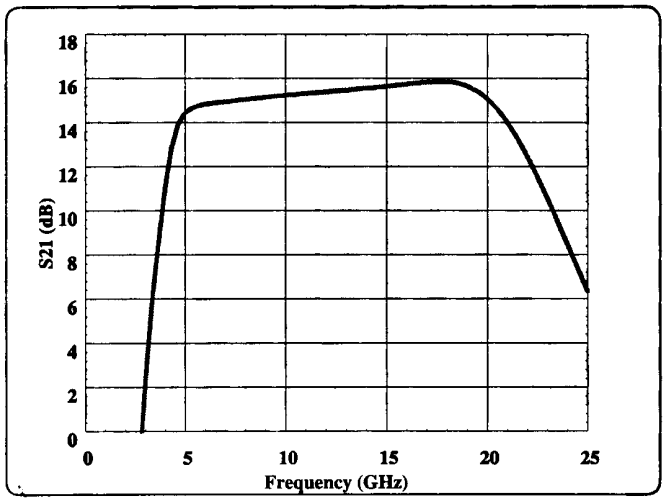


Centellax has expanded design capabilities at the company's Santa Rosa, CA headquarters.

SPECIAL: Price Reduced on MMIC Amp $21 ea. In Qty. 1,000 Until 2/15/04

SANTA ROSA, CALIF.——Centellax Inc. has announced a temporary price reduction on its popular 5 to 20 GHz MMIC Bandpass Amplifier. Applications for the model UA5M20MC include test equipment, commercial, and military systems.

This unit is ideally suited for digital radios, spread-spectrum, electronic warfare (EW), and ultra-wideband communications systems. It can be used as an LO isolation amplifier, a mixer isolation amplifier, or a transmit amplifier in a radio system. It is also useful as a general system isolation and gain-block amplifier.



Typical on wafer measured performance.
Bias: Vd=5V; Id=150 mA

UA5M20MC 5 to 20 GHz Amp: Features

Wideband Operation: 5.5 to 20 GHz
High Gain: >14 dB
High P_{sat}: 20 dBm
High P_{-1dB}: 18 dBm
Low Input/Output Return Loss
High Isolation
High Linearity
Low Power Dissipation
Size: 920 x 920 µm

SPECIAL OFFER: Buy 1,000 pieces at $21 each with mention of this ad. Offer expires 2/15/04, when unit price reverts to $24 in 1,000 quantities. Replace your current amp with great performance at a low price! Samples in 48 hours. Call Holger Stuehrmann @ 623-330-3060; Centellax toll-free @ 866-522-6888; holger_ stuehrmann@centellax.com.