

Newsletter

Issue number 2 - 2011

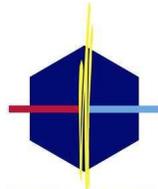
In this issue

- **New generation E-2000™**
- **New MITEQ amplifier**
- **MITEQ Inc**
- **Optical Spectrum Analyzer**

Newsletter information!

This is a newsletter presented by MicroComp Nordic AB. If you don't want to receive those newsletters in the future, please send us an email: info@microcomp-nordic.se or give us a call: +46 (0) 8 607 39 10.

New generation E-2000™



DIAMOND
the fiber meeting

Diamond has released a new generation of mating adapters for the E2000™. From April 2011 all Diamond standard, PS, PM, C&C and LAN E-2000™ simplex and duplex-compact mating adapters will be manufactured applying the same technology and characteristics as the F-3000™ adapters (welding of two twin parts).

This technology will allow Diamond to implement the E-2000™ EtO-Sterilizable connections with optional IP-65 protection, in addition to the standard version. This action aims at meeting today's requirements for Safety, Reliability and Quality within several markets such as: Biomedical, Energy, FTTX, Telecom etc as well as for applications subject to special environmental conditions.

The New "E-2000™ EtO/IP 65 connection", which is based on the Standard E-2000™ connector and mating adapter, incorporates some additional parts which offer an excellent sealed optical connection.



First generation



*Second generation
(Present)*



New generation

Figure 1: The E-2000™ evolution

The new adapters will consecutively replace the present version (2nd generation), as soon as the existing stock will be sold out (estimated around December 2011, providing consumption remains constant).

New MITEQ amplifier family

A series of 6-8, 12-18 and 8-18 GHz amplifiers are introduced by MITEQ Inc, covering 30 dBm to 34 dBm. The model



Figure 2: Power amplifier
and 0.9" high with SMA connectors. Heat-sink and other control features are also available as options.

AMF-8B-08001800-40-33P delivers over full band of 8-18 GHz, with over 40 dB gain and ± 2.5 dB flatness. Noise figure is less than 4 dB, port VSWR is less than 2:1, and it draws about 3A from a single +12 to +15V DC supply. The housing has a footprint of only 3" by 1.9"

Optical Spectrum Analyzer



APEX Technologies, located in Marcoussis in France, have been shipping Optical Spectrum Analyzers since 2001 and their new series of high resolution analyzers are called AP2040 and AP2050.

They are based on an interferometric principle which gives them higher resolution than what is traditionally achieved with a grating based analyzer, see figure 4. At 3dB the typical resolution is 0.8 pm (100MHz) with ± 3 pm wavelength resolution.

Optionally two different additional PM inputs are available. The user can choose between having the input independent of polarization (SM) or the two PM inputs. If run in SM mode the input signal is split into two orthogonal polarization axes, analyzed simultaneously by two internal independent channels. By using this method, the APEX analyzer can display the two polarization channels separately or recombine them and display a polarization independent measurement. When run in PM mode the two signals can be analyzed simultaneously by two internal independent channels. By using this method, the APEX analyzer can display the two signals separately.

The built-in Tunable Laser Source (TLS) local oscillator can also be used as an independent TLS. An optional TLS optical output and a control software can be integrated into the equipment.

For more information or to book a demonstration of a unit contact us at MicroComp Nordic.

APEX Technologies, located in Marcoussis in France, have been shipping Optical Spectrum Analyzers

MITEQ Inc



MITEQ, an acronym for Microwave Information Transmission Equipment, has been in the business for over forty years.

The company is based in Hauppauge on Long Island in New York and designs and manufactures a complete line of high performance components and subsystems for the microwave electronics community.

Over the years MITEQ has grown into a company which is dedicated to achieving technical excellence, producing quality products and satisfying customer's specific needs.



Figure 3: Hauppauge NY

Although MITEQ offers one of the broadest lines of standard catalog items, the bulk of MITEQ's business is in customized components, assemblies, and systems designed specifically around the customer's requirements.

MITEQ's state of the art facilities presently consist of five buildings totaling 339000 square feet which contain six Class 100,000 and two Class 10,000 clean rooms to support high reliability space and military applications.

MITEQ has undergone the extensive ISO-9001 certification process, as well as the ISO 9001:2008 and AS9100 Rev B at the Hauppauge facilities to help secure its future as a primary source for advanced microwave products.

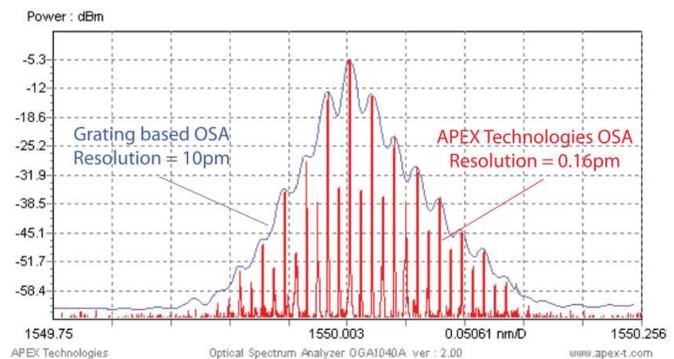


Figure 4: Comparison between two different OSA

MicroComp Nordic AB
Tullinge, Sweden
+46 (0) 8 607 39 10
info@microcomp-nordic.se
<http://www.microcomp-nordic.se>