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MicroComp Nordic AB is a privately owned company that was started in 2004 and has its head office in Stockholm.

MicroComp Nordic works with Microwave and Fiber Optic as consultancies, and as representative for different suppliers as well as with product development, also on customer request.

Newsletter information!

This newsletter is 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.

Updated MCN web



MicroComp Nordic AB has updated its web with some new pages and some new functions. Among the new functions there is now a possibility to search for Miteq amplifiers directly on the MicroComp Nordic pages. The search page can easiest be reached from the front page by pressing the "Amplifier search" button. Doing so will bring up a questionnaire where one can enter various amplifier characteristics and then perform a search, figure 1. Additionally the tools page has been updated and a new download page has been added. Take a look at: <http://www.microcomp-nordic.se>.

Figure 1: Amplifier search page

Calmar Laser's Cazadero Enables Unique Materials Research at National Light Source Facilities



Both the Stanford Linear Accelerator Facility (SLAC) and Lawrence Berkeley National Laboratory (LBNL) have selected Calmar Laser's Cazadero femtosecond fiber laser chirped pulse amplifier system for synchronized time-resolved experiments that reveal unique structural changes in novel material systems.

Calmar Laser, a leading developer and manufacturer of ultrafast fiber lasers, first introduced the Cazadero in 2005, primarily for precision materials processing applications in medicine and microelectronics manufacturing. However, within the research community there has also been significant interest in the system, which provides up to 20 µJ pulse energies at repetition rates up to a few MHz and a typical pulse width of less than 500 fs.

Professor Aaron Lindenberg at the SLAC facility indicated that, "We selected the Cazadero because of its turn-key, stable performance and compact size that enable convenient relocation of the system from one experimental beam line to another. The combination of high repetition rate and high energy, short pulses allows us to undertake picosecond time-resolved X-ray studies with excellent signal-to-noise". The Cazadero is operating at a repetition rate of 1.28 MHz and has been successfully phase-locked to the synchrotron 476 MHz RF signal with a timing jitter of less than 1 ps.

The high energy output pulse of the fiber based system is used to induce a change in a material system of study, which is then interrogated at the atomic level by an X-ray pulse from the synchrotron. The approach is used to gain a better understanding of the excited state dynamics of nanocrystalline systems and how they differ from the corresponding bulk materials. Such insight could lead to more efficient next generation photovoltaic or biomedical materials.

New MITEQ CD

Miteq Inc has now released the spring 2011 CD catalog. New additions to the catalog are the Amplifier Products Catalog and the Microwave Control Products.

If you would like a copy of the CD, contact MicroComp Nordic AB.



Intelliconnect "Pisces" waterproof RF Connectors for marine and harsh environments



Intelliconnect (Europe) Ltd the UK based specialist manufacturer of RF connectors announces the availability of its wide range of IP67 and IP68 interconnect solutions for harsh environments. Qualified to a minimum of 20m for four hours

in their unmated condition, the Pisces range are renowned for reliability under rigorous conditions and Intelliconnect are now widely considered to be the world leaders in this highly specialised field. Intelliconnect Pisces waterproof RF connectors are suitable for many applications including: high quality Antennas, Personal Locator Beacons, Cochlear Implant devices, petrochemical monitoring equipment, and traffic indication systems.

Pisces waterproof RF connector designs are available for most Coaxial/Triaxial/Twinaxial waterproof connector groups. Standard models include high frequency waterproof connectors, to both commercial and MIL standards, including SMA, TNC, N, SMB and push-pull connector types. All Pisces connectors are designed to meet the requirements of US MIL-PRF-39012, MIL-STD-348 and IEC: 169-8. Waterproofing meets IP68 per IEC 60529, (NEMA 6P or better), tested to a 20 meter water depth in an unmated condition for duration of 4 hours. Operating temperature range is -65°C to $+165^{\circ}\text{C}$, corrosion (salt spray) performance is to MIL-STD-202, Method 101 and moisture Resistance is to MIL-STD-202, Method 106. Intelliconnect (Europe) Ltd manufactures a wide range of standard and custom RF connectors, components and cable assemblies, including waterproof and fast turnaround custom designs which are undertaken without NRE charges to their customers. They also manufacture a large range of coaxial adaptors, to facilitate inter-series connection and gender change etc, and connector and cable assemblies to customer specific requirements are also undertaken. Typical applications include marine, oil and gas, medical, defence and general microwave markets.



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