

Issue number 1 - 2012

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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 let us know: [info@microcomp-nordic.se](mailto:info@microcomp-nordic.se)  
or: +46 (0) 8 607 39 10.

## MicroComp Nordic is now Representing Gould



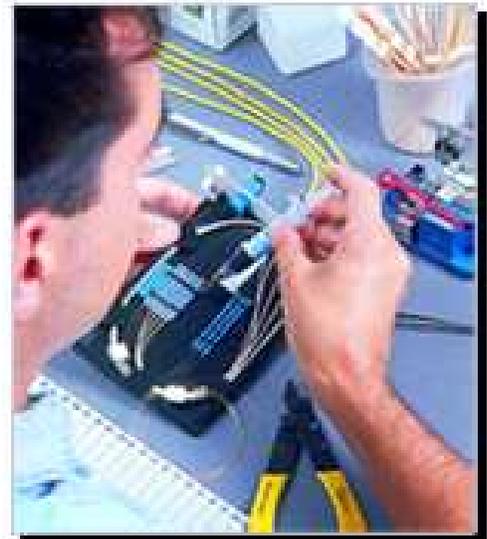
Gould Fiber Optics ([www.gouldfo.com](http://www.gouldfo.com)) is a leading worldwide manufacturer and supplier of premium passive fiber optic components and specializes in fully tested integrated solutions. Their components can be found on the ocean floor, in space, and around the house. Gould Fiber Optic fiber optic components make your application more reliable because of their excellent performance in all kinds of conditions.

As of August MicroComp Nordic AB and Gould Fiber Optics are co-operating, and MicroComp Nordic will now be selling all Gould products in Denmark, Estonia, Finland, Latvia, Lithuania, Norway and Sweden.

Gould was founded as a research facility on a naval program in 1978, setting the foundation for a company enriched in the importance of quality and reliability.

Early successes included development of a practical fused biconical taper (FBT). This was the first of many inventions and patents awarded to Gould in the area of manufacturing Fiber Optic components and processes.

In 1986, Gould established a business to sell custom fused biconical tapered FBT fiber optic couplers. Over the last twenty five years Gould has grown to be a global leader in the industry and is responsi-



*Figure 1: Fiber optic integrated solutions by Gould*

ble for pioneering new fiber optic products and manufacturing methods. Gould Fiber Optics has been awarded many patents on design, build and packaging various optical fibers and integrated optics based components with high optical specifications and harsh environmental operating conditions.

Today, Gould holds patents on a variety of important fiber optics components plus the GlasSolder™ manufacturing process, a new glass-to-glass bonding technique that increases field reliability.

Gould have an ISO 9001:2008 certified state of the art product manufacturing facility in Millersville, Maryland, USA. They have the product engineering skills and capabilities to design, manufacture and test a wide range of fiber optic products and integrated optics solutions.

## Teledyne Offers Environmentally Hardened Relays



Teledyne Relays are offering their range of environmentally hardened relays to the Oil and Gas and Sub-Sea industry for applications in Remotely Operated Vehicles (ROV's), Exploration and Production. The range of sub miniature electro-

mechanical relays include the 400V High Vibration Series rated at 280G's at 200Hz, 400H High Temperature Series rated from -65 to +200 °C for continuous operation and the 400K High Shock Series rated at 4000G, 0.5ms, axial plane, half sine, and 1000G, 0.5ms, side plane half sine. It is possible to have certain of these ratings in combination in one relay, for example a 412HV, which is a DPDT relay with both high temperature and high vibration in one relay. The range also offers pulse operated latching versions of the 400K High Shock and 400H High Temperature Series where available power may be at a premium. All relays in this product range have hermetically sealed metal enclosures. They are built and tested using the well established and proven processes Teledyne Relays have in place to supply relays to Military, Aviation and Space programmes globally. In the specialised world of Oil and Gas and Sub-Sea, Teledyne Relays offer a specialised product with engineering support to provide a tailored solution to exceptional switching applications.



Figure 2: Relays for tough conditions

## Calmar Laser ISO Certified



Calmar Laser, has received the International Organization for Standardization ISO 9001:2008 certification for its quality

management system.

Calmar has a long history of providing high quality ultrafast fiber laser products to the challenging world of telecommunications. With their intrinsic reliability, ease of use, and compact design, fiber lasers have enjoyed explosive growth over the past several years and gained significant market share in all sectors of the laser industry. Calmar is leading the adoption of ultrafast fiber laser technology and ISO certification demonstrates the company's quality commitment to its expanding customer base.

President and CEO, Tony Lin, commented, "Capitalizing on our innovative technologies, we've successfully transitioned our market focus, expanded our facilities, and ramped production to meet growing customer demand. Our strategic partners rely on us for high performance, high uptime lasers and ISO 9001:2008 certification demonstrates our commitment to continually improving our engineering, manufacturing, and business processes within all levels of our organization."

Lin continues, "These processes represent a set of principles that ensure a common-sense approach to managing business activities that builds upon our experience manufacturing ultrafast fiber lasers. ISO certification also represents another key accomplishment in executing our growth strategy initiatives that were launched over two years ago" products. See also [www.CalmarLaser.com](http://www.CalmarLaser.com).

## New Miteq CD - 2012

Miteq has released a new Communications CD catalog for 2012.

Contact MicroComp Nordic if you would like to have your own copy of it, [info@microcomp-nordic.se](mailto:info@microcomp-nordic.se).



## DiTom



DiTom Microwave is a small, minority-owned, AS9100 Rev.C certified U.S. manufacturing company located in Fresno, CA. With 25 years of experience, DiTom manufactures high quality coaxial isolators and circulators operating in the frequency ranges of 250 MHz - 40.0 GHz.

While completing numerous Hi-Rel military programs over the years and currently supplying thermal vacuum qualified components, DiTom has positioned itself for the space environment.

DiTom have an environmental testing laboratory in-house that includes a Tenney T5STR Environmental Chamber, LDS V830 Electro-Dynamic Shaker, and an Anritsu 37369D VNA. This testing equipment is fully qualified and capable to handle all of your Hi-Rel testing needs in a timely manner.

DiTom supplies components to the defense, aerospace, space, and telecommunications markets. DiTom's coaxial isolators and circulators can be found in cellular communication systems, satellite up and down links, line-of-sight communications, radar countermeasures, and broadcast equipment.

DiTom has a standard delivery of 1-2 weeks for all COTS products. For Hi-Rel opportunities, DiTom delivers according to project schedules. When you are looking for the best coaxial ferrite isolators and circulators that can meet your tough and critical design requirements, choose wisely, choose DiTom Microwave.



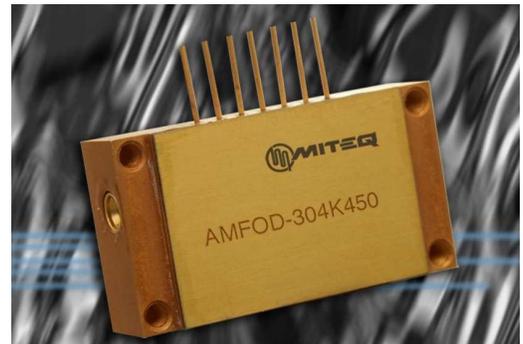
*Figure 3: Ku-band Isolator, model D311214-1*

## Optical Modulator Driver Amplifier



MITEQ has introduced a new optical modulator driver, Model AMFOD-30K450, suitable for driving Lithium Niobate optical modulators for OC-768 long haul fiber Optic communications applications.

This unit has a high output drive voltage of up to 8V, with 30 dB of small signal gain, flat up to 40 GHz with a low frequency cutoff at 80 kHz. It is in a hermetically sealed package that is 0.31" thick by 0.65" wide by 1.2" long, with straight or bent pin options. Input and output are with GPPPO connectors. There is a separate GPPPO input for the balanced input termination. For digital stream input, the eye zero crossing at the output can be adjusted from 40% to 70%. RMS additive jitter is less than 750fs with rise and fall times of better than 8ps. Both input and output port VSWRs are better than 10 dB. Fully compliant and reliable operation from  $-40$  to  $+85^{\circ}\text{C}$  and draws about 380 mA from a supply of 6V to 8V.



*Figure 4: Miteq model AMFOD-30K450*

MicroComp Nordic AB  
Tullinge, Sweden  
+46 (0) 8 607 39 10

[info@microcomp-nordic.se](mailto:info@microcomp-nordic.se)  
<http://www.microcomp-nordic.se>