

Newsletter

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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.

Diamond



Diamond is the world's leading manufacturer of high-precision fiber optic products, and successfully serve several markets of numerous countries worldwide. Diamond grew from modest beginnings, having been established in 1958 as a machinist of ultra-hard materials and a manufacturer of industrial jewels, record player styluses, and other high-precision components. The experience gained in these endeavors formed the basis of the company's expertise in precision machining and volume production, expertise which has been systematically expanded and perfected over the years.

The demand for diversification led Diamond into the exciting, growth-intensive field of fiber optics, where the company quickly established an internationally-recognized reputation as an innovator. The company's products have won loyal acceptance from users around the globe because it is Diamond's express goal to meet the highest demands of customers. The company's status as the preferred supplier at numerous leading telecom systems manufacturers attests to the soundness of this strategy. In addition to its broad array of standard products, Diamond is renowned as a dynamic, innovative partner, able to develop custom-tailored solutions in response to customer demands.



The quality of Diamond's products and processes are overseen by a quality management system complying with ISO 9001. Certification was attained in 1994, and continues to make Diamond a more effective and competitive partner to the customers.



Figure 1: Diamond headquarters, Losone, Switzerland

New Mini-AVIM Universal Flange

The compact size and stable performance of the Diamond Mini-AVIM connector has led to the development of a new MAS Universal Flange based on this connector system. This new flange is available alongside the existing FC version. The Diamond Multipurpose Adapter System (MAS) is the next generation of modular interchangeable adapters based on 2.5 mm diameter ferrule whose size, ease of cleaning and inspection, and

optical performance make it an ideal choice for high performance applications such as test and measurement equipment.

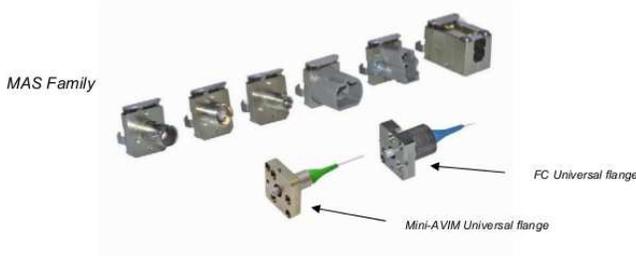


Figure 2: Mini-AVIM

Hermetically Sealed Loop Back Relay

Teledyne Relays introduces the first ever hermetically sealed loop back relay. The loop back relay combines the technology of two Teledyne RF300 Series relays and eliminates the need for external PCB traces in loop back test applications. This innovation results in superior signal integrity and RF performance, while taking minimal board space. The relay is designed for digital signaling applications with excellent signal integrity up to 12 Gbps data rates, and has good RF performance up to 6GHz. Additionally the relay has the low loss high frequency performance associated with the RF300 Series. The relay construction provides two internal paths: Through and AC Bypass. While the through path provides a loop-back path across high performance contact material the AC Bypass path adds a coupling capacitor across each

loop-back path. The in-line capacitors allow designers to remove the footprints for external components by performing AC bypass functions internally. The typical loop-back ATE application uses the Device Under Test (DUT) to test itself. In this method, the transmitter from the DUT is connected, through a loop back path,

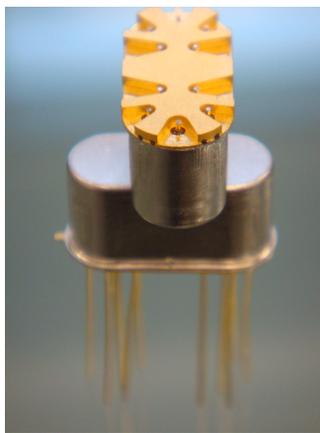


Figure 3: Loop Back Relay

to the receiver of the DUT. The double pole design of the relay is perfectly suited for differential signaling, allowing one component to provide, transmit and receive signals and their inversions to the DUT, and through the bypass path. The relay has a footprint of just 20.45mm x 9.52mm. with a choice of through hole or surface mount capability.

Broadband GaN Power Amplifiers

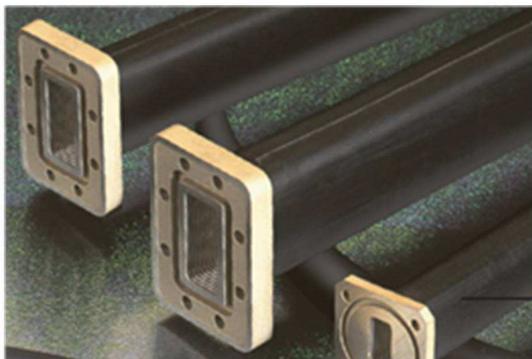
Miteq broadband GaN power amplifiers with frequency ranges in excess of 10 octaves, 3 to 10W.

- Single bias, 30V
- Excellent gain flatness over very wide bandwidths
- Withstands high baseplate temperature of surges in RF or DC power without compromising reliability
- Various models available that operate from 30 MHz to 4 GHz
- Built-in over/reverse voltage protection
- Temperature and over-current protection



Alroy Microwave & Electronics Limited

Established in 1966 by D. Grist and D. Hucker, Alroy Microwave and Electronics Ltd has a workforce of 20 personnel. It is a family run concern, designing, manufacturing and testing waveguide assemblies in a variety of materials for both the commercial and military business sectors. Within their newly acquired work and machine shop based in Stevenage, Hertfordshire, Alroy manufacture waveguide assemblies, sub assemblies and waveguide components from waveguide R32 (WG10) up to waveguide R320 (WG22) in copper, brass and aluminum. Alroy are also capable of manufacturing double ridge and lightweight seamless waveguide assemblies. The assemblies are either manufactured directly to customers' own specifications or designed by Alroy. The company pride themselves in being able to work to the tightest tolerances, to satisfy customers requirements, and to ensure that customers inquires are priced keenly and that delivery dates are met.



The assemblies supplied by Alroy are manufactured using the latest methods and techniques available, along with tried and tested methods. All machining, twisting, bending and testing are carried out in-house, giving flexibility in lead and completion times. All manufactured items are tested on one of Alroy's Marconi Instruments' spectrum analysers, and inspected in climate controlled inspection and test area. Alroy operate a quality management system, which comply with the requirements of BS.EN. ISO 9001:2000,

Alroy Microwave also holds approvals for the following:
M.o.D. no. 17VA01, from G.E.C Marconi Avionics Ltd, Matra Marconi Space Ltd and British Aerospace.

Alroy Microwave is frequently asked to design, manufacture, install and test waveguide runs for sat-comms, microwave

links and SDH networks in the commercial and military fields.

Teledyne Relays Announces New Microwave Switches Guide



Designed for engineers to easily review data and select coaxial switches, Teledyne Relays has released the latest edition of the Microwave Switches Selection Guide.

The Guide contains RF performance plots, electrical control data and schematics for each switch in the range, and includes mechanical outline drawings and mounting details. Additional performance capabilities included is Passive Intermodulation and Insertion Loss repeatability developed from a 10 Million cycle test program.

New product included is the CAS-37, a three state attenuated switch which features three switched RF paths: Open, Through and 20dB Attenuation.

The Microwave Switches Selection Guide includes extended options and enhanced RF performance. A short overview of Teledyne's switch matrix capabilities provides a capability illustration with customers invited to submit inquiries for individual requirements.

To get your own personal copy of the Teledyne Microwave Switches Selection Guide, contact MicroComp Nordic AB.

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