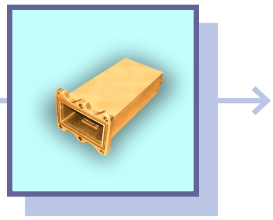


## What's new at MAG 2012

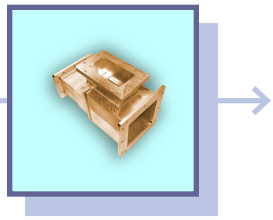
**Microwave Applications Group (MAG)** has a proven record of creativity and innovation in microwave component and subsystem design for government, military, laboratory, and commercial applications. MAG leverages its existing designs to develop new components and support legacy systems, in some cases where the original manufacturer is no longer in business or willing to provide products produced in the past. Current and recent developments and legacy support provided by MAG include:

- S-Band Waveguide Load

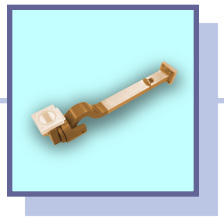


- L-Band Septum Polarizer

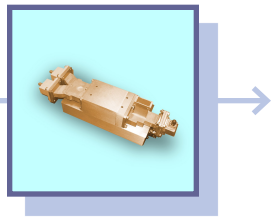
- L-Band Ortho-Mode Junction



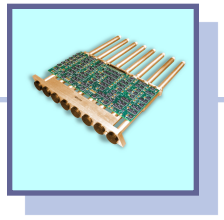
- X-Band Rotary Joint



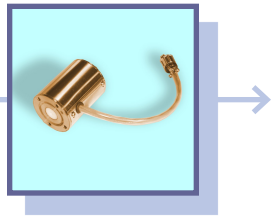
- X-Band Monopulse Resolver



- C-Band Phase Control Module



- X-Band Microwave Ferrite Rotator



**Information** on each device is found on the other side of this sheet.

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**S-Band Waveguide Load**...MAG's unique, multifaceted design team has developed a termination for the AWACS. MAG was approached and qualified by the USAF due to DMSMS issues of previous vendors.

**L-Band Septum Polarizer**...MAG developed this product for internal testing of L-Band components after being unable to locate an acceptable SP device in the marketplace.

**L-Band Ortho-Mode Junction**...MAG developed this product for internal testing of L-Band components after being unable to locate an acceptable OMJ device in the marketplace.

**X-Band Rotary Joint**...MAG's team has developed the capability to build new and repair existing rotary joints in support of the USN due to DMSMS issues of previous vendors.

**X-Band Monopulse Resolver**...MAG developed this resolver to support the USN in their antenna development efforts.

**C-Band Phase Control Module**...MAG designed and built a prototype threat simulator module meeting unique customer packaging requirements on an extremely compressed schedule.

**X-Band Microwave Ferrite Rotator**...MAG developed a replacement rotator for the HAWK to fulfill an Army requirement, solving a DMSMS problem where the OEM was unable to support the program.

**MAG** was founded as a California corporation in 1969 to serve the government/aerospace/commercial market with high-technology microwave component and system activities from applied research through volume production.

**Early** growth of the company was made possible by the development at MAG of "Dual-Mode" and "Rotary-Field" ferrite phase control elements, the latter of which was subsequently used in electronic steering of the antenna for the USAF/Westinghouse E-3 Airborne Warning and Control System (AWACS) radar. MAG provided engineering services and hardware items throughout the feasibility study and engineering model phases of the AWACS program and continues as a supplier of hardware for production phase AWACS antennas. MAG also developed and supplied items for the Electronically Agile Radar (EAR), a USAF-sponsored program which served as a prototype for the B-1B APQ-164 Offensive Radar System. MAG subsequently received the contract to support the production of the Phase Control Modules (PCM's) for the B-1B Radar System and successfully produced in excess of 130,000 PCM's.

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