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integrated assemblies & waveguide components

Other Renaissance products include:

- Circulators
- Isolators
- Power Combiners
- Power Dividers
- Electro-Mechanical Switches
- Switch Matrices
- ATE Rack Systems



Renaissance - offers the technical excellence to engineer your RF/Microwave front end for high power radars or communication systems. Leadership in the latest techniques in integration of high power microwave components gives you a complete technical solution and an advantage in the market place.

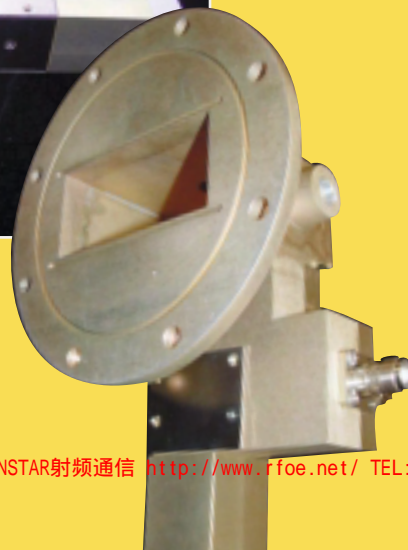
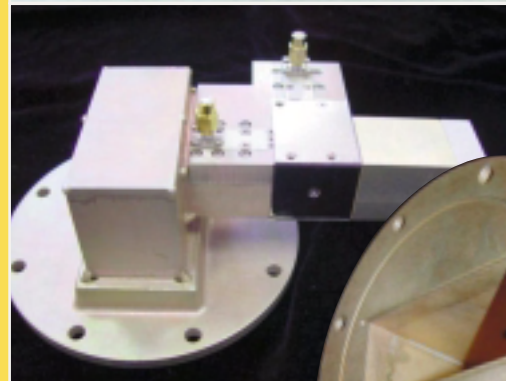


Integrated Assemblies 1 - 50 GHz

High power radar and communication system front ends typically consist of waveguide components such as ferrite circulators, bandpass filters, harmonic filters, couplers, switches and loads. Integration of these components into an Integrated Waveguide Assembly, minimizes interaction problems, reduces insertion and return losses, as well as reducing weight and size.

Renaissance Electronics has a heritage of integrating Waveguide components such as circulators, loads, couplers and detectors together to make Waveguide Subsystems. Our 2003 acquisition of P & H Laboratories included a variety of Waveguide Integrated Assembly designs qualified for defense and space applications, further strengthening our commitment to our customers.

Renaissance Electronics combines its design heritage along with our experienced engineering staff to understand the unique requirements of waveguide integration and thereby to design and manufacture sophisticated Integrated Front-End Waveguide Assemblies.



Waveguide Components

Ferrite Circulators/Isolators
700 MHz - 50 GHz

The junction circulator, differential phase shift circulator and resonance isolator are used to connect transmitter to antenna and antenna to receiver. They are also used to minimize reflect signals when functioning as an isolator, and can handle up to 10 mega watts peak power

Filters/Diplexers
1-50 GHz

Coupled cavity bandpass filters, harmonic reactive and absorptive filters, high pass filters and stopband filters are used frequently to remove unwanted signals. Sharp roll-off with high

attenuation/rejection can be realized with power handling up to several mega watts.

Septum Polarizers/Orthomode Junctions
1-50 GHz

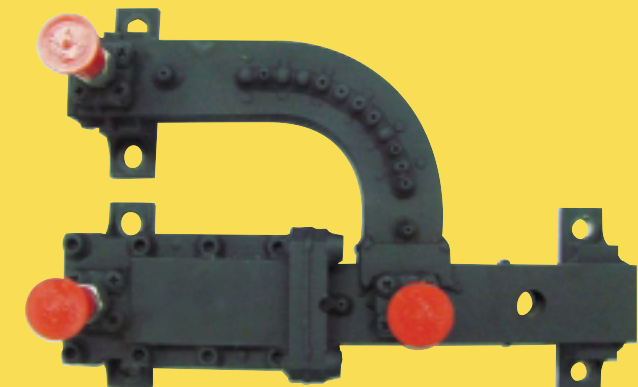
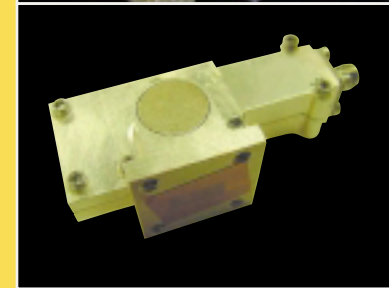
The septum polarizer is used to generate right hand or left hand circular polarization signals directly within an antenna feed. It is extremely compact and lightweight. The orthomode junction or tee is used similarly with vertical and horizontal linear polarized antenna feeds. These components are suitable for space applications.

Power Dividers/Combiners
2 GHz to 20 GHz

Corporate and series feed structures are designed to provide a tapered roll off in power distribution in a phased array radar or communication system. The waveguide solution provides for lower losses and higher power handling along with very precise control of the amplitude distribution of power.

Ceramic Windows/Water Loads
400 MHz - 50 GHz

High power pressure and vacuum windows using a ceramic barrier to provide a hermetic seal down to pressure of 10^{-9} torr. High power water loads dissipating powers up to 1 mega watt CW.



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