



Integrated Microwave Assemblies

Receivers
Attenuators
Upconverters
Downconverters
Integrated Front Ends
Pulse Compressors
Assemblies

- Solid State Power Amplifiers • Integrated Microwave Assemblies • Receiver Protectors
- Control Components • Transmitters • Amplifiers • Modulators • Magnetrons
- Crossed Field Amplifiers • Ring Loop Traveling Wave Tubes • Power Couplers



Integrated Microwave Assemblies

CPI Beverly Microwave Division (BMD) has extensive experience in the design and development of integrated microwave assemblies. Each integrated design uses a mixture of electrical and mechanical design tools to optimize the performance, weight, heat transfer and mechanical stability under harsh environmental conditions. Each design utilizes proven technology to develop a custom module around a customer's requirements.

For more IMA products:
www.cpii.com/bmd

Applications:

- Missile seekers
- Airborne radar and EW
- Unmanned aerial vehicles (UAV)
- Ground based systems
- Naval radar
- Air traffic control

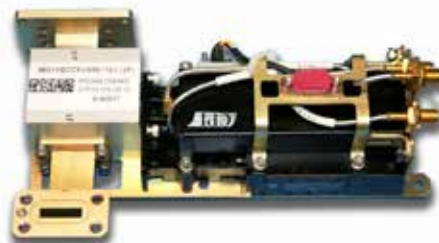
Receivers

- Available in frequencies: L, S, C, X, Ku, Ka Bands
- Low noise figures
- Digital gain control
- Linearized RF attenuation
- Very high dynamic range
- Switched IF filter
- Dual-conversion radar receivers
- Fast recovery time



Absorptive High Power Integrated Assemblies

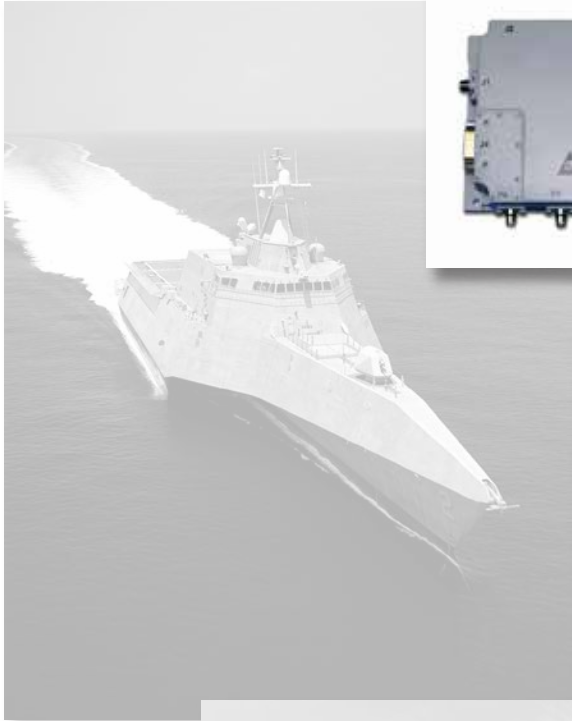
- Highly selective filter
- Low noise figures
- Fast recovery time



Digital Attenuators

- Available in frequencies: L, S, C, X, Ku, Ka Bands
- Low insertion loss
- Digital / Analog control
- Fast switching time
- Available with waveguide or coax interfaces





Pulse Compressor Assemblies

- Available in frequencies: L, S, C, X, Ku, Ka Bands
- Low noise figures
- Digital gain control
- Very high dynamic range
- Switched IF filter
- Dual-conversion radar receivers
- Fast switching time



Upconverters / Downconverters

- Available in frequencies: L, S, C, X, Ku, Ka Bands
- High spurious rejection
- Adjustable filter bandwidth
- Gain control
- RF gating capability



High Power Integrated Assemblies

- Fast recovery time
- Low noise figures
- BITE Circuits

Integrated Front Ends

- Frequency range: 10 kW to 100 kW
- Low noise figure
- High power handling
- Multifunction capability

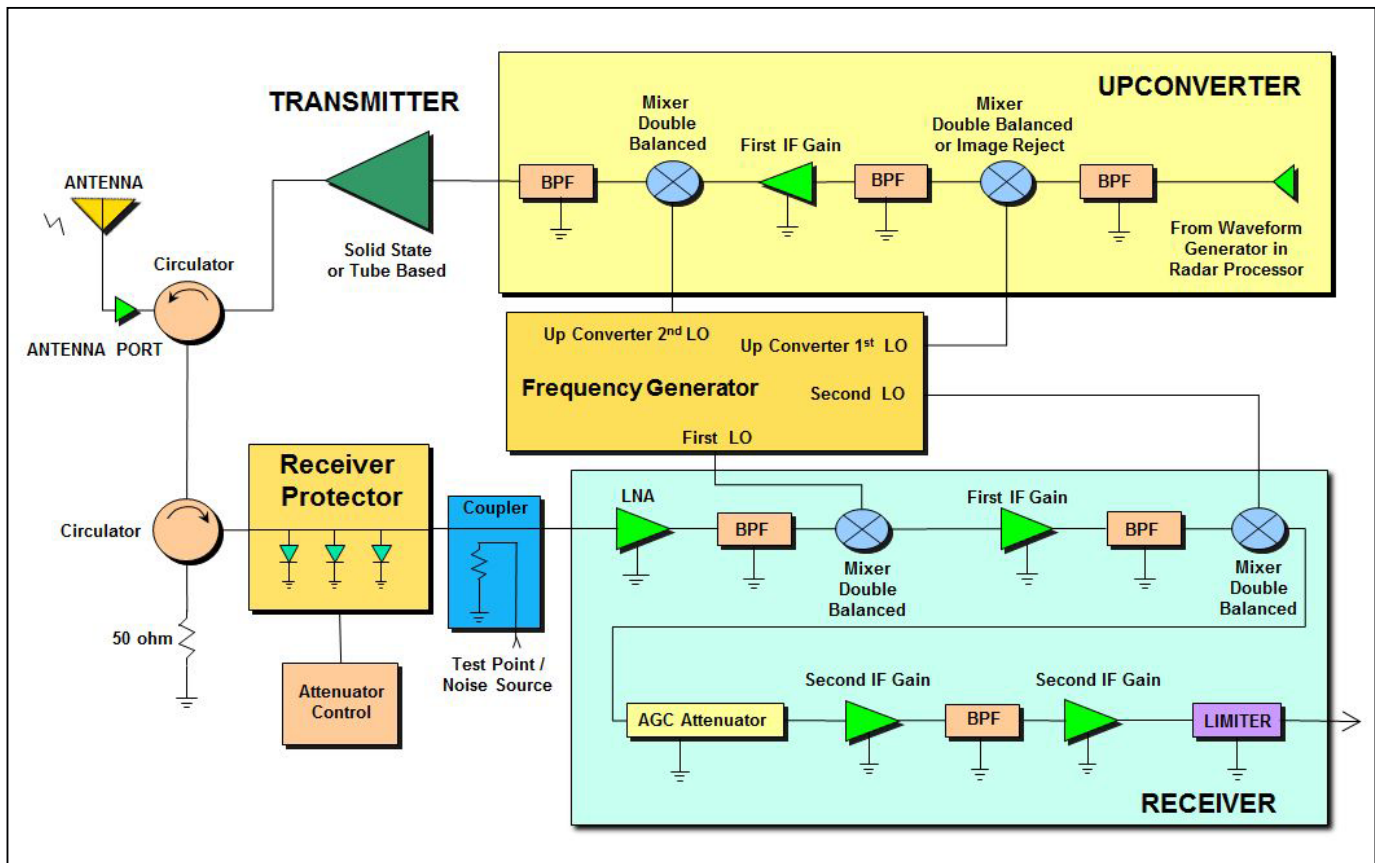


Radar Block Diagram

Historically, radar system designers selected various components from different suppliers without the ability to accommodate how they interact. CPI BMD has a successful history of providing additional functionality to receiver protectors, by integrating passive and active components into a single, Integrated Microwave Assembly (IMA).

CPI BMD produces a compact, more efficient integrated component, by optimizing performance, reducing development costs and ultimately, providing increased functionality to the end product.

This Radar Block Diagram depicts the various building blocks of a typical radar system that CPI BMD is capable of integrating to fit your design needs.



Ask us about integrating your designs today.

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.

For information on this and other CPI products visit our web page at www.cpii.com/bmd, or contact: