Integrated Microwave Assemblies

- Receivers
- Attenuators
- Upconverters
- Downconverters
- Integrated Front Ends
- Pulse Compressors
- 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

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

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

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Integrated Front Ends

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

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
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.