



*Electron Device
Business*

Integrated Microwave Assemblies

Customized to meet exacting
program requirements



RECEIVERS

ATTENUATORS

UPCONVERTERS

DOWNCONVERTERS

INTEGRATED ASSEMBLIES

PULSED COMPRESSOR

ASSEMBLIES



Electron Device
Business

Integrated Microwave Assemblies (IMAs)

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

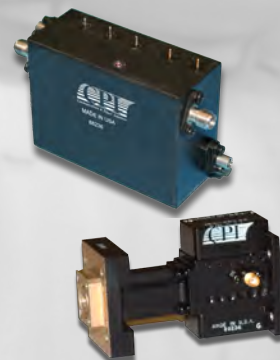
Receivers

- 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



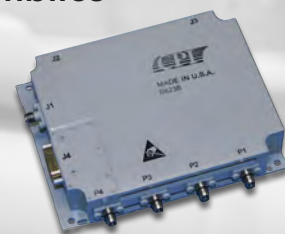
Digital Attenuators

- 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

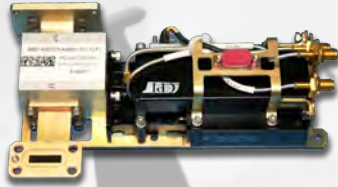


Found in radar systems around the globe

Each design utilizes proven technology to develop a custom module around a customer's requirements.

Absorptive High-Power Integrated Assemblies

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



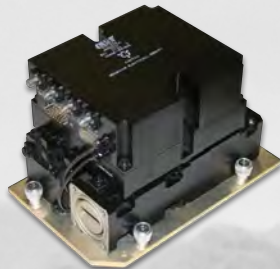
High-Power Integrated Assemblies

- 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



Applications and platforms:

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

For more IMA products:

www.cpi-edb.com



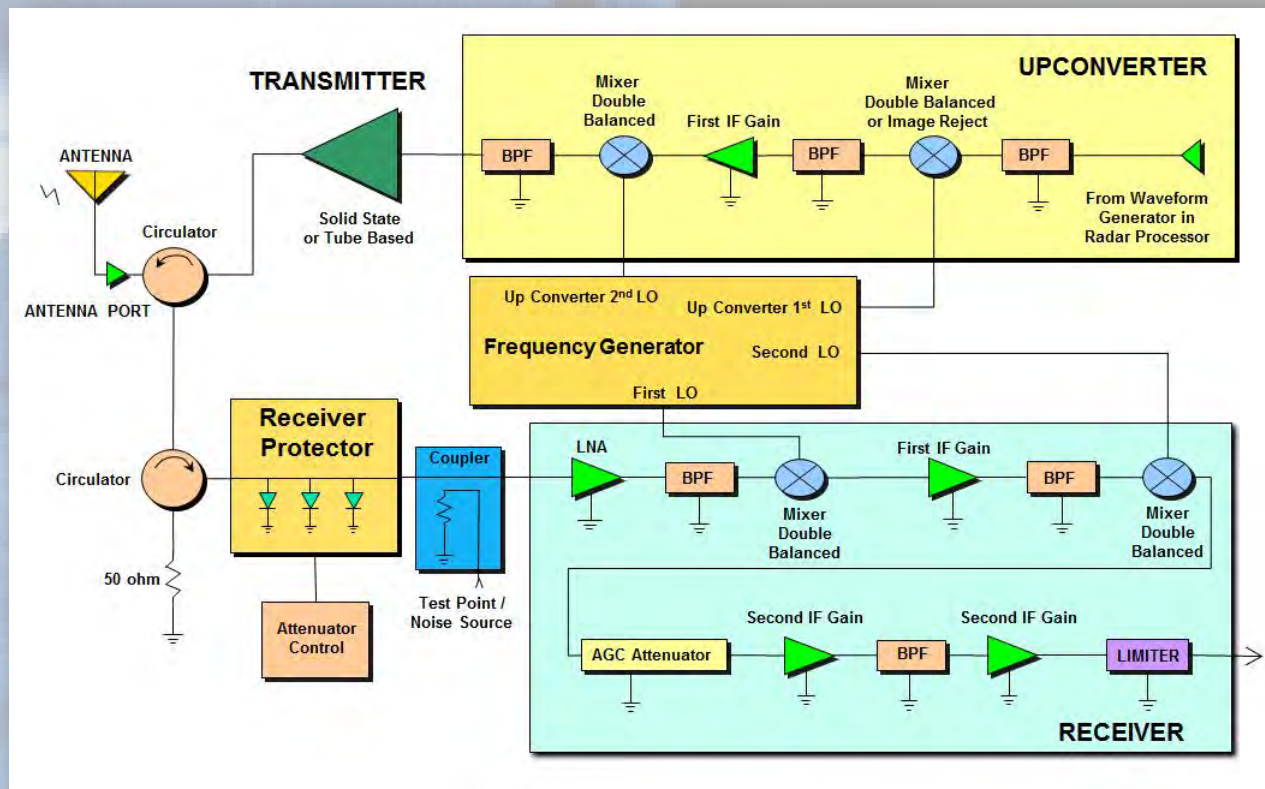
Integrated Microwave Assemblies

Ideal for Radar Systems

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

CPI EDB 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 EDB can integrate to fit your design needs.



Ask us about integrating your designs today.

Contact us at ElectronDevices@cpi-edb.com or at call us at +1 978-922-6000