

## Receiver Protectors and Control Components

Receiver Protectors  
Solid State Limiters  
Plasma Limiters  
Solid State Switches  
Pressure Windows  
Waveguides  
Duplexers  
Multipactors

- 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



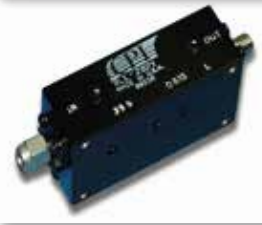
## Receiver Protectors and Control Components

CPI's Beverly Microwave Division (CPI BMD) has been designing and manufacturing receiver protector products at its Beverly, Massachusetts location continuously for over 60 years. CPI BMD is the largest and most sophisticated manufacturer of such products in the world today. Current designs span the spectrum from low-frequency coaxial limiters to complete Pre-TR Limiter, TR limiters with attenuation and phase control up to Ka-Band. CPI BMD's products are manufactured in all transmission line types, including waveguide, coax, stripline and microstrip. Advances in computer-aided modeling techniques have made it possible for CPI BMD to achieve performance levels that would have been unheard of only a few years ago. CPI BMD's modern and extensive low- and high-power test facilities allow for complete verification of specified performance parameters.

For more Receiver Protector and Control Component products:  
[www.cpii.com/bmd](http://www.cpii.com/bmd)

### Applications:

- Missile seekers
- Airborne radar and EW
- Unmanned Aerial Vehicles (UAV)
- Ground based systems
- Naval radars
- Air traffic control
- Weather radars

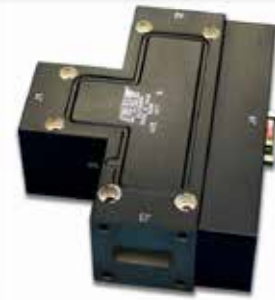


### Solid State Limiters

- Available in frequencies: L, S, C, X, Ku, Ka Bands
- High peak power handling
- Very fast recovery times
- Reliable out of band protection

### Microwave Switches

- Available in frequencies: L, S, C, X, Ku, Ka Bands
- Low insertion loss
- Digital control
- Fast switching time
- SPST
- SPDT



### Pre-TR / Limiters

- Available in frequencies L, S, C, X, Ku, Ka Bands
- High peak power
- Very fast recovery times
- Low output leakage
- Superior broadband isolation





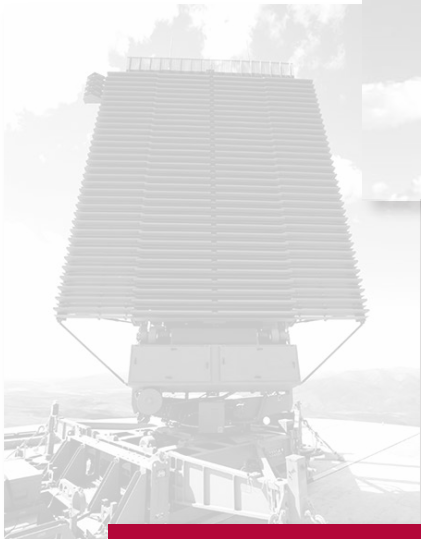
**Pre-TR / TR / Limiters**

- Available in frequencies: L, S, C, X, Ku, Ka Bands
- High peak power
- Fast recovery time
- Manages various waveforms
- Low loss protection



**TR / Limiters**

- Available in frequencies: L, S, C, X, Ku, Ka Bands
- High peak power
- Longer recovery times
- Very low loss
- Passive protection
- Compact design



**Ask us about integrating additional functionality...**

- Digital / Analog Attenuation
- Low Noise Amplifiers (LNA)
- Absorptive Limiters
- Couplers
- High Power Circulators
- Filters
- Noise Sources
- Integrated Loads
- BITE Circuits



**Pressure Windows**

- Available in frequencies: L, S, C, X, Ku, Ka, W Bands
- Materials: glass, ceramic, quartz, Teflon fiberglass, Beryllium Oxide
- Low loss, low cost
- Option to add gaskets
- Option for liquid cooling

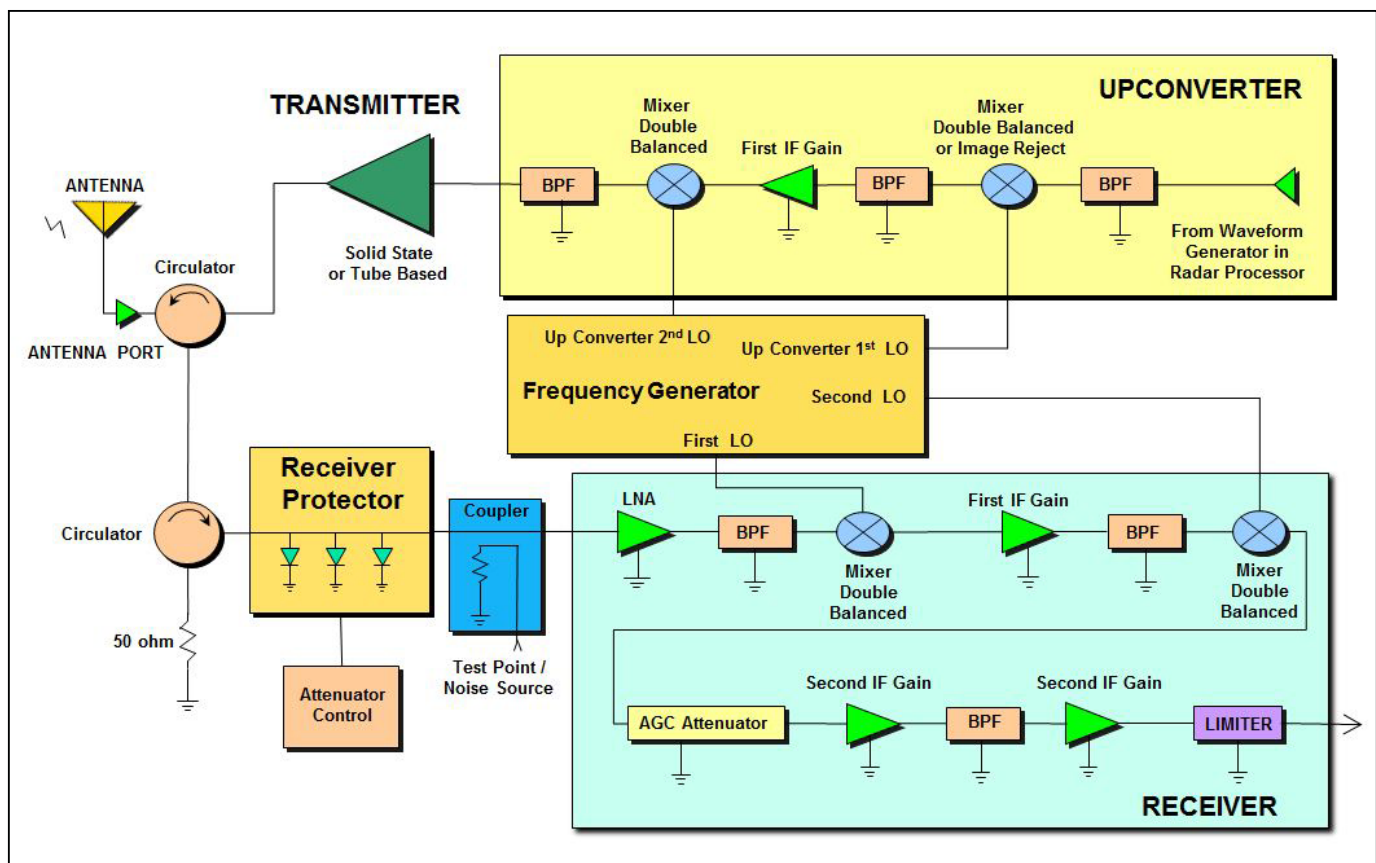


## Radar Block Diagram

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](http://www.cpii.com/bmd), or contact: