Microwave Front Ends

Features:

• Provides both a transmit path and a receive path
• The receive path can provide receiver protection and low noise amplification
• Test ports for injection of a signal for Built-in Test (BIT)
• Sample ports to monitor transmit and reflect signals
• Monitors for high reflected power and temperature

Benefits:

• High power handling
• Low noise figure
• Calibrated couplers
• Variable attenuation
• Excess noise generators for calibration

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.

CPI BMD uses both Ferrite Circulator and Balanced Hybrid Duplexing technology to produce a compact, more efficient integrated component, by optimizing performance, reducing development costs and ultimately, providing increased functionality to the end product.
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Typical capability block diagram

We have the ability to integrate your microwave front ends into a larger assembly. Ask us about designing a complete subsystem for you today.