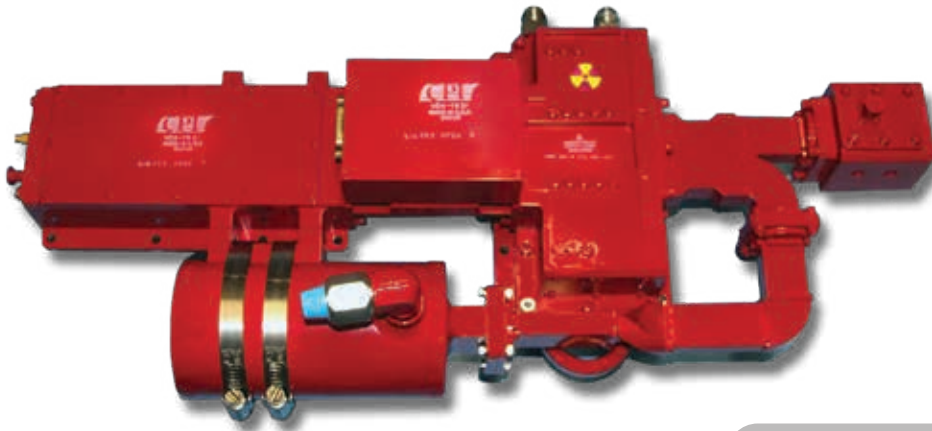


## Communications & Power Industries Receiver Protector Assembly



With a history of producing high quality products, we can help your with receiver protector.

Contact us at [BMDMarketing@cpii.com](mailto:BMDMarketing@cpii.com)  
or at call us at +1 978-922-6000.

### FEATURES:

- Wide pulse, high duty operation
- Absorptive protection
- Passive/Active receiver protector
- Input coupler
- Excess noise function
- Bandpass filter
- Field replaceable LNA
- BITE output for status monitoring

### BENEFITS:

- World's largest manufacturer of receiver protectors
- State of the art facility with high level of vertical integration
- Extensive high power test capability
- In-house environmental test facility
- Computer modeling and automatic test capabilities

### APPLICATIONS:

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

### Electrical Specifications

Operating frequency	
Low loss state	9.5– 10.5 GHz
Protection state	9.5 – 11.5 GHz
Maximum overload power	100 kW peak
Maximum normal operating power	2.8 kW peak
Maximum pulsewidth	2300 uSec
Maximum duty cycle	35%
Maximum insertion loss (pre-LNA)	1.0 dB
Maximum VSWR	1.3:1
Maximum spike leakage power	100 mW
Maximum flat leakage power	50 mW
Maximum recovery time (-1dB)	5.0 uSec
Input coupler	20 dB
LNA	
Gain	15 – 20 dB
NF	1 dB max
Bandpass filter	
1 dB passband	9.25 – 10.75 GHz
40 dB rejection BW	4 GHz max
Excess noise ratio	15 – 20 dB

Note: See product specification for other performance details

### Mechanical and Environmental Specifications

RF input	WR90
RF output	SMA(F)
Coupler output	SMA(F)
Attenuation, BITE & Noise controls	RS-422
Dimensions	See outline drawing
Operating temperature	-55° to +125° C
EMI	
RF leakage	65 dBc min
Susceptibility	65 dB min
Altitude	15,000 ft max
Relative humidity	95% max
Internal waveguide pressurization	25 PSIG
Operational life	35000 hours
Water cooling	100 PSI

See product specification for other details

