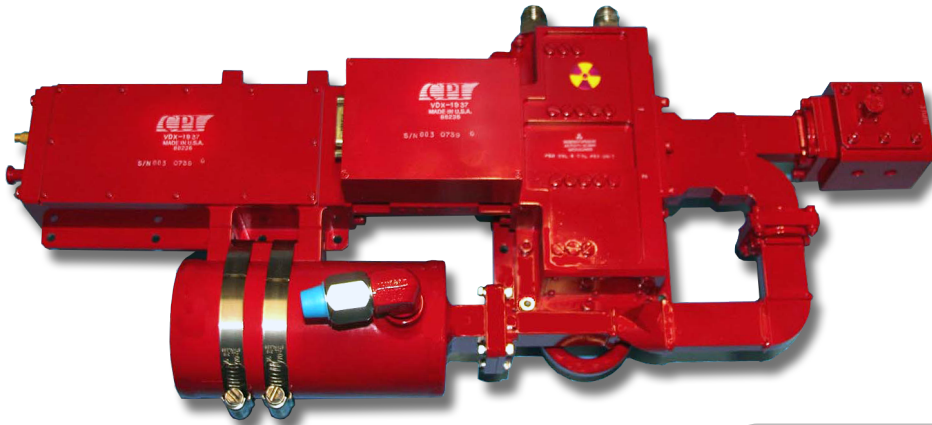


CPI Electron Device Business Receiver Protector Assembly



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

Contact us at ElectronDevices@cpi-edb.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

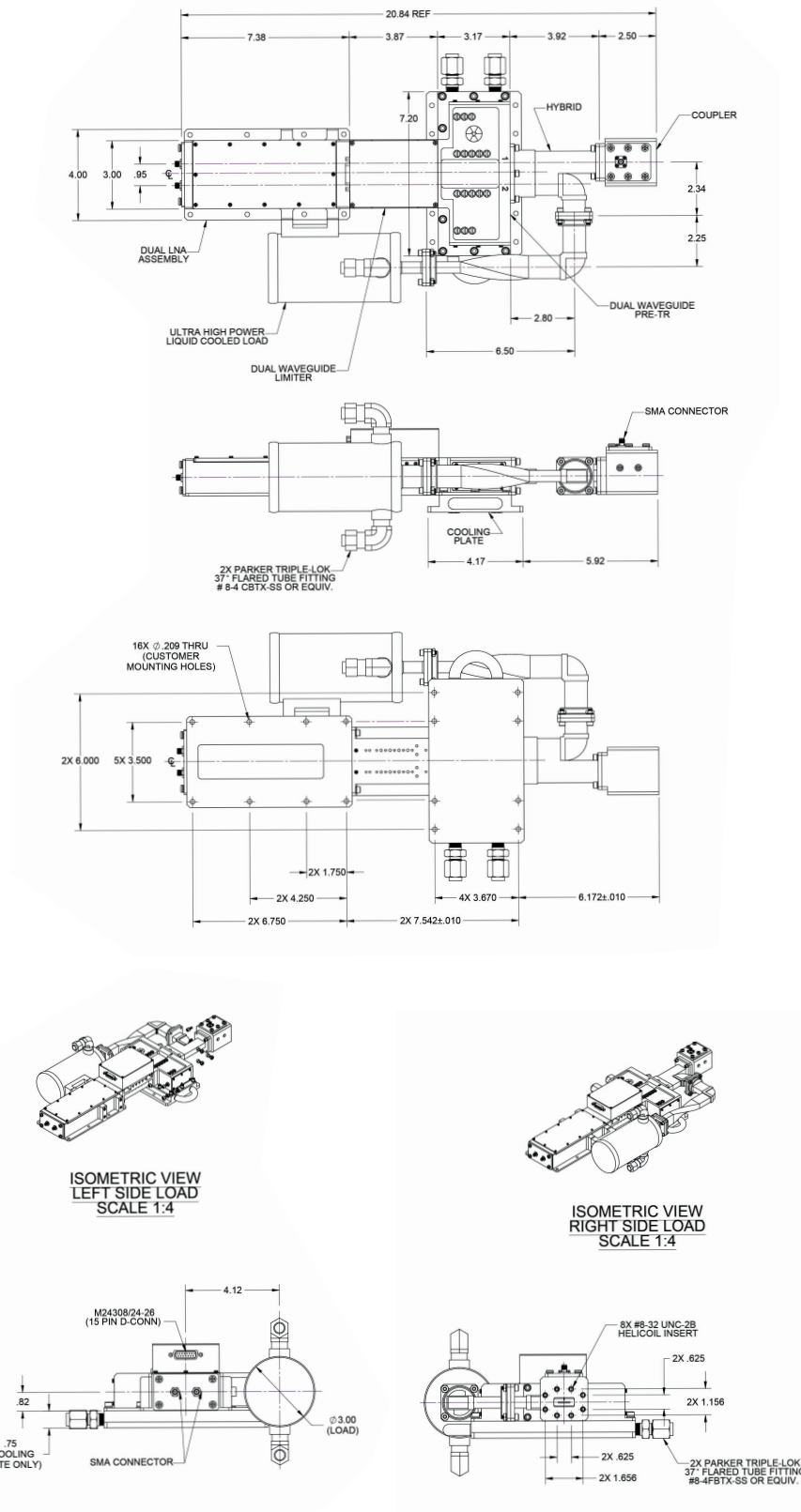
| | |
|----------------------------------|------------------|
| Operating frequency | |
| Low loss state | 9.5 – 10.5 GHz |
| Protection state | 9.5 – 11.5 GHz |
| Maximum overload power | 100 kW peak |
| Maximum normal operating power | 2.8 kW peak |
| Maximum pulsewidth | 2300 uSec |
| Maximum duty 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 |

CPI EDB X-Band 100 W Receiver Protector Assembly: VDX1937



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For more detailed information, please refer to the corresponding CPI EDB technical description if one has been published, or contact CPI EDB. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI EDB before using this information for system design.
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