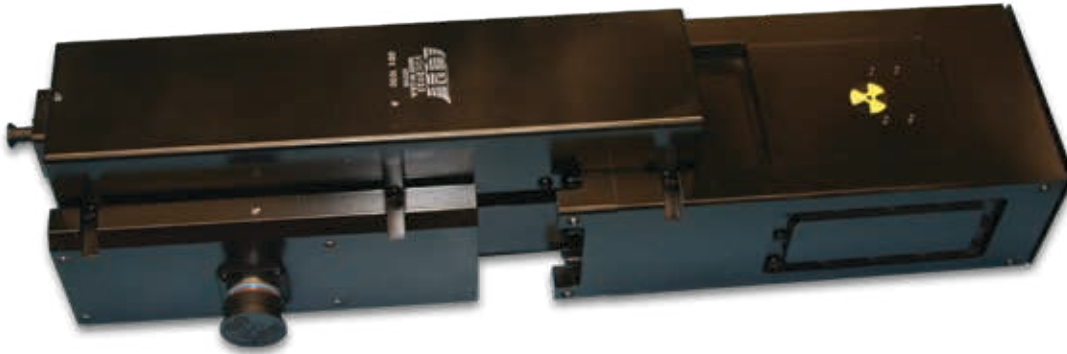


## Communications & Power Industries Receiver Protector



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

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

### FEATURES:

- High duty cycle, wide pulsewidth operation
- Long life
- BITE circuit reports operational status
- 50 dB switch gate attenuator
- 0 to 40 dB continuously variable attenuator

### 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:

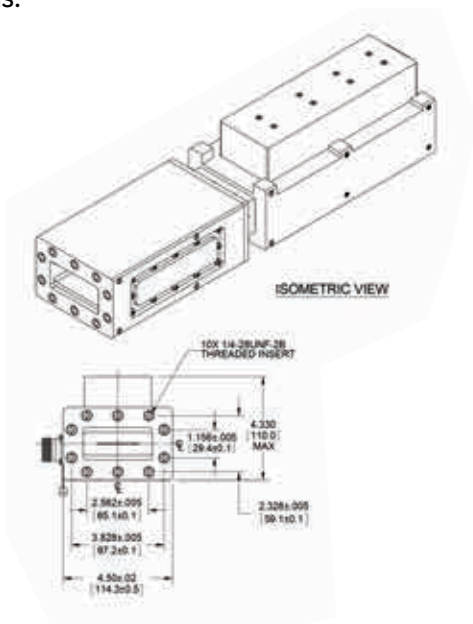
- Ground based systems
- Naval radars
- Air traffic control radars
- Weather radars

# CPI S-Band 20 kW Receiver Protector: VDS2033

## Electrical Specifications

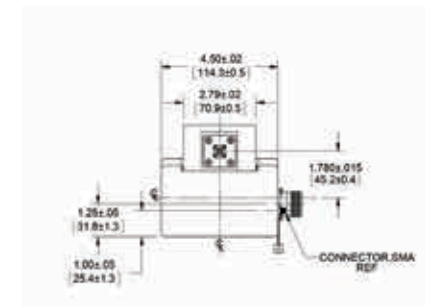
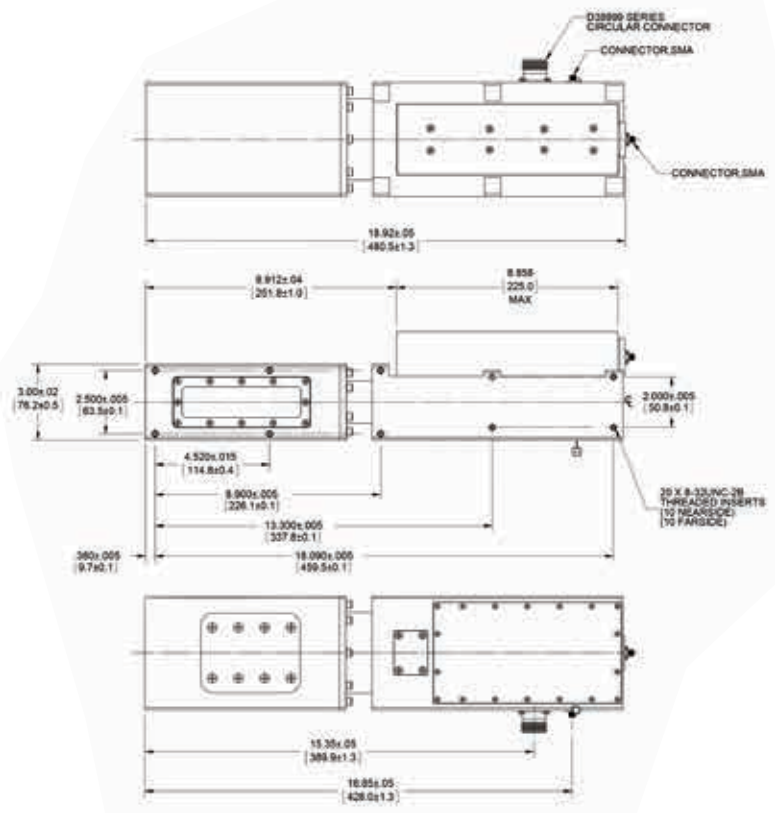
Operating frequency	2.7 – 3.0 GHz
Maximum overload power	20 kW peak
Maximum normal operating power	2 kW peak
Maximum pulsewidth	150 $\mu$ Sec
Maximum duty cycle	11%
Maximum insertion loss	0.7 dB
Maximum VSWR	1.4:1
Maximum spike leakage power	100 mW
Maximum flat leakage power	40 mW
Maximum recovery time (-1dB)	
tp = 1.0 $\mu$ Sec	1.5 $\mu$ Sec
tp = 150 $\mu$ Sec	7.0 $\mu$ Sec
Switch gate attenuation*	50 dB min
Continuously variable attenuation*	0 to 40 dB
Design Operating life @ 2 kW peak input	10,000 hours min
Design shelf life	15 years min

Note: See product specification for details regarding BITE output circuit and attenuation functions.



## Mechanical and Environmental Specifications

RF input	WR284
RF output	SMA(F)
Dimensions	See outline drawing
Operating temperature	0° to +50° C
Storage temperature	-55° to +85° C
See product specification for detailed environmental specifications	



**Beverly Microwave Division**  
150 Sohler Road  
Beverly, Massachusetts  
USA 01915

tel +1 978-922-6000  
email [BMDMarketing@cpii.com](mailto:BMDMarketing@cpii.com)  
fax +1 978-922-8914  
web [www.cpii.com](http://www.cpii.com)

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

©2020 Communications & Power Industries LLC. Company proprietary; use and reproduction is strictly prohibited without written authorization from CPI.