



*Electron Device
Business*

Weather Radar Products

Weather predicting and tracking
components in radar systems
around the world

MAGNETRONS

1 MW S-Band
250-500 kW C-Band
250 kW X-Band

RECEIVER PROTECTORS & LIMITERS

S-Band
C-Band
X-Band

KLYSTRON TRANSMITTERS

1 MW S-Band
1 MW C-Band
250 kW C-Band

MAGNETRON TRANSMITTERS

1 MW C-Band
350 kW C-Band
350 kW Outdoor Unit (C-Band)
350 kW Outdoor Unit (X-Band)

Weather Radar Products

CPI Electron Device Business' reliable and durable products are found in weather radar systems around the globe

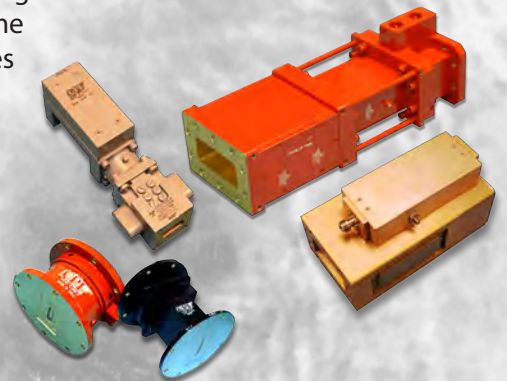
Magnetrons

- S-, C-, and X-Band magnetrons
- Excellent frequency stability
- Mechanically tunable frequency
- Air-cooled anode
- Peak power up to 1 MW



Receiver Protectors and Limiters

- S-, C-, and X-Band products
- Superior broadband isolation
- High peak power
- Low output leakage
- Fast recovery time
- Low noise figures



Reliability and Innovation



Check out all CPI EDB weather radar products at www.cpi-edb.com



Klystron Weather Radar Transmitters

- S-, C-, and X-Band transmitters
- Excellent stability and performance
- Tunable
- Up to 1 MW peak output power
- Forced-air cooled
- Touch screen with local/remote control
- Ethernet connectivity for remote monitoring and control

Magnetron Weather Radar Transmitters

- S-, C-, and X-Band transmitters
- Sheltered or outdoor models
- Forced-air cooled
- Touch screen with local/remote control
- Ethernet connectivity for remote monitoring and control
- Excellent Doppler performance
- Mechanically tunable frequency

With our experience and product breadth, we can support most new and existing weather radar systems.

CPI EDB is uniquely positioned to deliver either individual microwave components or complete transmitters, based on each customer's needs. Each transmitter provides a wide range of output power options along with custom user interfaces and remote networking capability.



Weather Radar Products

With a history of producing high-power, high-quality products, CPI EDB can help you with your weather radar products.

Contact us at ElectronDevices@cpi-edb.com or at call us at +1 978-922-6000

Magnetrons

Typical Operating Parameters

Band	Frequency (GHz)	Peak Power	Duty Cycle
S-Band	2.7 to 2.9	800 kW	Various
C-Band	5.45 to 5.65	200 kW to 1 MW	Various
X-Band	8.5 to 9.6	250 kW	Various

Receiver Protectors and Limiters

Typical Operating Parameters

Band	Peak Power	Average Power	Insertion Loss	Recovery Time	Flat Leak	Spike Leak
S-Band	Up to 1.25 MW	Up to 10 kW	<0.8 dB	<1 μ s	<50 mW	<250 mW
C-Band	Up to 1.25 MW	Up to 900 kW	<1.0 dB	<1 μ s	<50 mW	<250 mW
X-Band	Up to 300 kW	Up to 300 kW	<1.0 dB	<1 μ s	<50 mW	<250 mW

Transmitters

Typical Operating Parameters

Band	Frequency (GHz)	Peak Power	Average Power
S-Band	2.7 to 3.0	850 to 1000 kW	2 kW
C-Band	5.6 to 5.65	250 to 1000 kW	0.6 to 2 kW
X-Band	9.4 to 9.6	300 kW	0.3 kW



cpi-edb.com



Beverly Microwave Division
150 Sohier Road
Beverly, MA 01915
USA

TMD Technologies Division
Swallowfield Way
Hayes, Middlesex
UK UB3 1DQ

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.

©2024 CPI Electron Device Business. Company proprietary: use and reproduction is strictly prohibited without written authorization from CPI EDB.