

Weather Radar Products

Magnetrons

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

Receiver Protectors and Limiters

- S - Band
- C - Band
- X - Band

- Solid State Power Amplifiers • Integrated Microwave Assemblies • Receiver Protectors
- Control Components • Transmitters • Amplifiers • Modulators • Magnetrons
- Crossed Field Amplifiers • Ring Loop Traveling Wave Tubes • Power Couplers



Check out all our weather radar products at www.cpii.com/bmd



Klystron Weather Radar Transmitters

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

Magnetrons

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



Weather Radar Products

Radar is critical for today's weather forecasting especially for storms near heavily populated areas. These radars assist meteorologists by detecting changes in local weather patterns they also offer awareness of oncoming weather patterns at a great distance that might affect the local area.

CPI is the world's largest producer of coaxial magnetrons, klystrons and receiver protectors. With our experience and product breadth, we can support most new and existing weather radar systems.

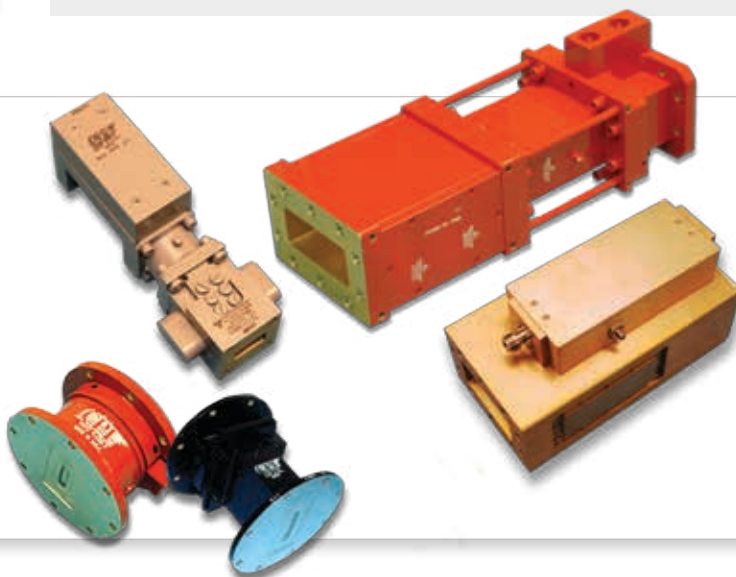
We are unique when compare to other suppliers as we can deliver individual microwave components or a complete transmitter. Each transmitter provides a wide range of output power options along with custom user interfaces and remote networking capability.

All CPI components and transmitters are rigorously tested to ensure a long and reliable life that minimizes down time and maximizes customer satisfaction.

At CPI Beverly Microwave Division, we provide high quality microwave products supporting weather radar with either Klystron or magnetron based technology.

Receiver Protectors and Limiters

- S, C, and X - Bands
- High peak power
- Very fast recovery times
- Low output leakage
- Superior broadband isolation
- Fast recovery time
- Low noise figures



Weather Radar Product Platforms

Customized for your application.

Receiver Protectors and Limiters

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

Magnetrons

Typical Operating Parameters			
Band	Frequency (GHz)	Peak Power	Duty Cycle
S	2.7 – 2.9	800 kW	Various
C	5.2 – 5.9	200 kW – 1 MW	Various
X	8.5 – 9.6	250 kW	Various

Transmitters

Typical Operating Parameters			
Band	Frequency (GHz)	Peak Power (KW)	Average Power (KW)
S	2.7 - 3.0	850 - 1000	2
C	5.60 - 5.65	250 - 1000	0.6 - 2
X	9.4 – 9.6	300	0.3

***With our history of producing high power, high quality products,
we can help you with your weather radar needs.***

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