Electronic Warfare (EW) Radar Products

CPI EW Radar Product Platforms customized for your application.

TWTs

Typical Operating Parameters

Band	Frequency	Output Power	Duty Cycle
S/C Band	2–8 GHz	Up to 200 W	CW/Pulse
I/J Band	8–18 GHz	Up to 200 W	CW/Pulse
I/J Band	6–18 GHz	Up to 200 W	CW/Pulse
K-Band	18.5 -26.5 GHz	Up to 50 W	CW/Pulse
Ka-Band	26.5–40.0 GHz	Up to 50 W	CW/Pulse

Coupled Cavity TWTs

Typical Operating Parameters

Band	Frequency	Output Power	Duty Cycle
S-Band	2.1-3.1 GHz	150 kW Pk	Various
C-Band	5.25–5.90 GHz	Up to 200 kW Pk	Various
X-Band	8.4–11.8 GHz	Up to 120 kW Pk	Various
Ku-Band	15.7–17.7 GHz	Up to 60 kW	Various
Ka-Band	34.5–36.0 GHz	Up to 1.1 kW	Various

Klystrons & Gyrotrons

Typical Operating Parameters

Band	Freq. (GHz)	Output Power	Duty Cycle
UHF band	Various	Up to 3.0 MW	Various
S-band	Various	Up to 5.0 MW	Various
C-band	Various	Up to 3.0 MW	Various
X-band	Various	Up to 5.0 MW	Various
Ku-band	Various	Up to 30 kW	Various
W-band	Various	Up to 2.5 MW	Various

Power Supplies

Typical Operating Parameters

Frequency (GHz)	Peak Power	Operating Voltage	Operating Temperatures	Altitude	VED Type
X-Band	800 Watts	2750 V	-45 to +88°C	70,000 ft	Magnetron
I/J-Band	50-100 Watts	4400 V (cathode)	-30 to +60°C	10,000 ft	Helix TWT
Ku-Band	400 Watts (pulsed)	28 VDC	-40 to +70°C	36,000 ft	Booster Helix TWT
Low band	400-1000 Watts	4.4 kV	-30 to +80°C	50,000 ft	Helix TWT

Power levels and frequencies are dependent on the TWT selected

With a history of producing high power, high quality products, we can help you with your EW radar.
Contact us at ElectronDevices@cpii.com or at call us at +1 978-922-6000

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Communications & Power Industries

Electronic Warfare (EW) Radar Products

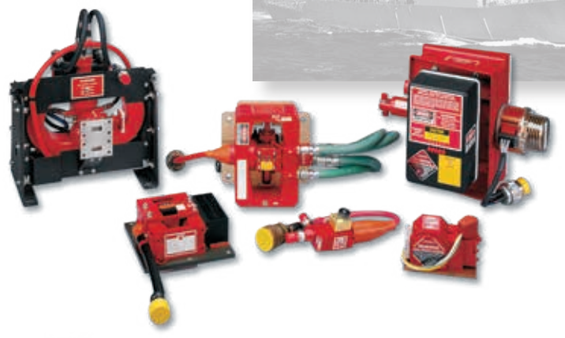
- HIGH POWER HELIX TWTs
- COUPLED CAVITY TWTs
- KLYSTRONS
- GYROTRONS
- POWER GRID DEVICES
- TRANSMITTERS
- POWER SUPPLIES
- INTEGRATED MICROWAVE ASSEMBLIES

Communications & Power Industries EW Radar Products

High Power TWTs
- Available in 1 GHz to 40 GHz
- Available in pulsed and CW modes
- Wideband
- Moderate power up to 2.5 kW CW and 2.5 kW peak power

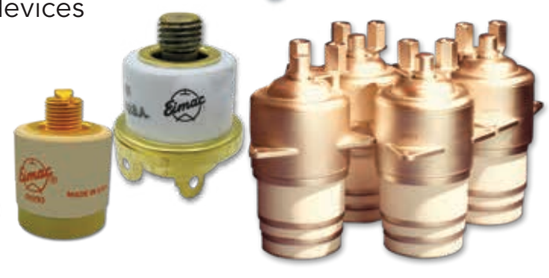
Coupled Cavity TWTs
- Up to 15% IBW
- Up to 150 kW
- Up to 35% duty
- Military environemnt qualified
- Efficient and compact
- Air and liquid cooled

Klystrons & Gyrotrons
- UHF to W band
- Up to 5 MW peak power
- Mobile, ground, and shipborne radar applications
- Directed energy



Power Grid Devices
- Over 600 power grid devices
  - Diodes
  - Triodes
  - Tetrodes
  - Pentodes
  - Planar Triodes

  (Power levels to 3 GHz)
- Sockets & hardware



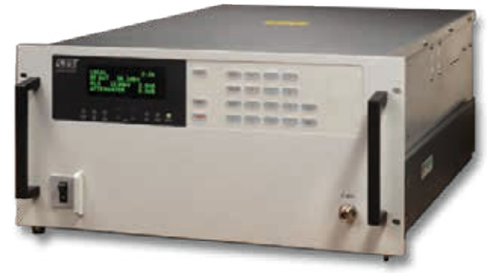
For more electronic warfare products go to www.cpii.com

Designed to meet and exceed the most stringent military environments...

Transmitters
- Available in 1 GHz to 18 GHz
- Low noise figures
- Available in pulsed and CW modes

Typical Operating Parameters

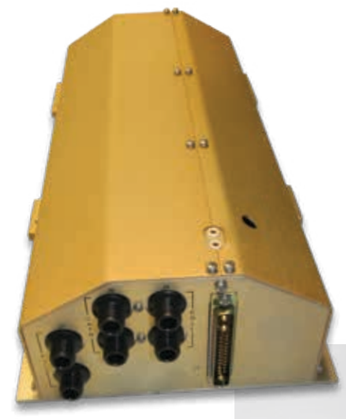
Band	Frequency (GHz)	Output Power	Duty Cycle
Low band	2 – 8 GHz	Up to 4 kW	Various
High band	8 – 18 GHz	Up to 8 kW	Various
I/J band	6 – 18 GHz	Up to 200 W	CW



Integral to the protection of warfighters worldwide by providing consistent reliable components for airborne, shipboard, ground, and decoy applications.

APPLICATIONS:
- Missile seekers
- Airborne radar and EW
- Unmanned aerial vehicles (UAV)
- Ground based systems

Power supplies
- Available in:
  - Low band
  - High band
  - I/J band
- Military environment qualified
- Efficient



Integrated Microwave Assemblies
- Available in .5 - 50 GHz
- Fast switching time
- Fast recovery time
- Military environment qualified
- Available with or without coax interfaces
- Efficient
- Compact
- Long pulse
- High duty