



Communications & Power Industries Military Radar Products

SOLID STATE
GaN POWER AMPLIFIERS
S to X-Band

TRANSMITTERS
S to X-Band

INTEGRATED MICROWAVE
ASSEMBLIES
L to Ka-Band

MAGNETRONS
L to Ka-Band

KLYSTRONS
UHF to W-Band

COUPLED-CAVITY TWTS
S to Ka-Band

Communications & Power Industries military radar products are found in militaries around the globe.

Integrated Microwave Assemblies

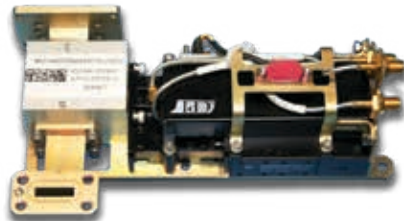
Receivers

- Available in frequencies: L, S, C, X, Ku, Ka Bands



Absorptive High Power Integrated Assemblies

- Highly selective filter
- Low noise figures
- Fast recovery time



Digital Attenuators

- Available in frequencies: L, S, C, X, Ku, Ka Bands



Pulse Compressor Assemblies

- Available in frequencies: L, S, C, X, Ku, Ka Bands

Upconverters / Downconverters

- Available in frequencies: L, S, C, X, Ku, Ka Bands



High Power Integrated Assemblies

- Fast recovery time
- Low noise figures
- BITE Circuits

Integrated Front Ends

- Frequency range: 10 kW to 100 kW



APPLICATIONS:

- Missile seekers
- Airborne radar and EW
- Unmanned aerial vehicles (UAV)
- Ground based systems
- Naval radar
- Air traffic control

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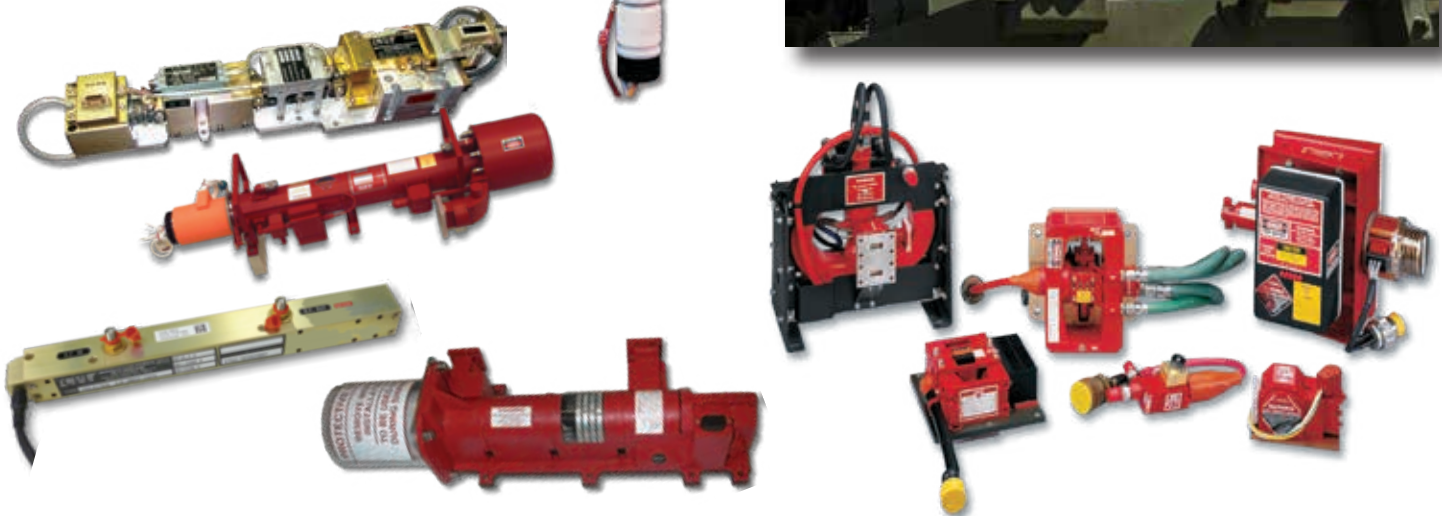
Integral to the protection of warfighters worldwide by providing consistent reliable components for airborne, shipboard, ground, and decoy applications.

Coupled-Cavity TWTs

- Up to 15% IBW
- 500 W to 200 kW
- Up to 35% duty

Klystrons

- UHF to W band
- Up to 5 MW peak power



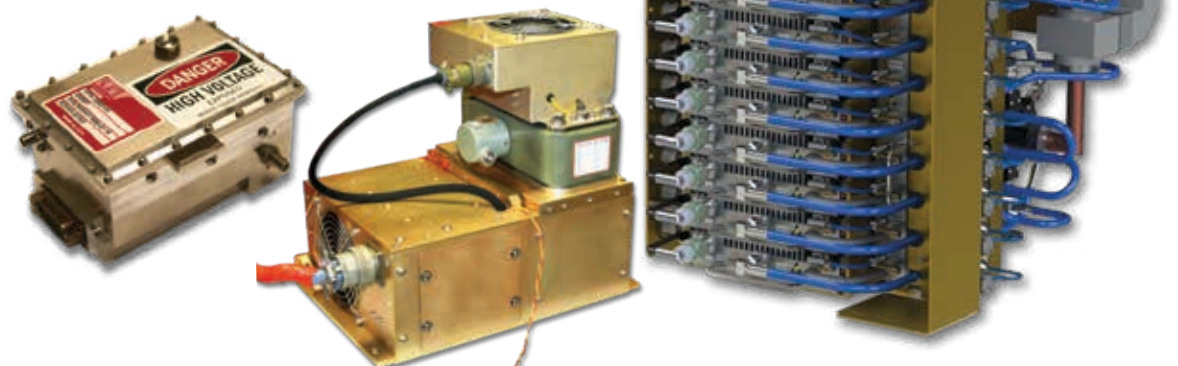
Solid State Power Amplifiers

- Available in 1 GHz to 10.0 GHz

- Meets stringent specifications
- Mobile and fixed base solutions
- Tried and true performance
- Fielded systems with outstanding MTBF (mean time between failures)

Transmitters

- Available in 1 GHz to 18 GHz
- Available in pulsed and CW modes



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Transmitters

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

Klystrons

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

Magnetrons

Typical Operating Parameters

Band	Frequency (GHz)	Peak Power	Duty Cycle
L	1 - 2	1 W	Various
S	2.7 – 2.9	800 kW	Various
X	8.5 – 9.6	250 kW	Various
Ku	15.6 – 16.7	40 kW	Various
Ka	32.9 – 33.5	60 kW	Various

Solid State Power Amplifiers

Typical Operating Parameters

Band	Frequency (GHz)	Peak Power (KW)	Duty Cycle
S	2.7 -3.0	1.3	10%
C	5.4 – 5.9	2.0	10%
X	9.0 – 10.0	1.0	10%

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 30 kW	Various

With a history of producing high power, high quality products, we can help you with upgrading your military radar systems.

Contact us at
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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.

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