

2025

Q2 NEWSLETTER
MID-ATLANTIC EDITION

THE PROTEQ PULSE

*Your Quarterly Connection to the
Pulse of the Industry -*

 **ProTEQ**
Solutions

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CONTACT INFORMATION



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IMS

Connecting Minds.
Exchanging Ideas.

JUNE 15 - 20

**MOSCONE CENTER
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Be sure to visit our principal partners and connect with the innovators we proudly represent

Anritsu

Booth: 2143

FORMFACTOR™

Booth: 750

pendulum

Booth: 4315

ABSOLUTE EMC

Booth: 2119

HYPERLABS

Booth: 964

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Booth: 1032 & 727

AR / AMETEK®

Booth: 942

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Booth: 529

MI-WAVE
Millimeter Wave Products Inc.

Booth: 1749



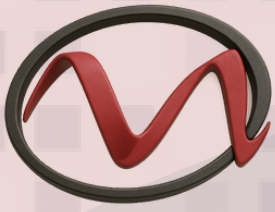
Cincinnati Sub-Zero Z-Plus Test Chambers

Temperature & Humidity



The Z-Plus Series offers advanced environmental testing capabilities, catering to a broad range of industries, and delivers precise, reliable temperature and humidity testing for a wide range of applications. With flexible sizing, advanced controls, and energy-efficient design, it's the ideal solution for streamlined environmental testing.

- **Wide Temperature Range:** Capable of simulating conditions from -73°C to $+170^{\circ}\text{C}$, with full relative humidity control, allowing for comprehensive environmental testing
- **EZT-570 Touch Screen Controller:** A user-friendly 7' interface that enables programming, data logging, remote monitoring, and real-time alerts via email or text messages
- **Robust Construction:** Features include a fog-free viewing window, interior lighting, adjustable shelving, and fully welded ports to prevent leaks and enhance durability
- **Energy Efficiency:** Incorporates environmentally safe refrigerants with zero ozone depletion potential, aligning with sustainable practices.



Maury Microwave HSY9100A Series

Ultra-Low Noise Synthesizer



The HSY9100 Series RF synthesizers deliver industry-leading phase noise and spectral purity in a compact 1U chassis with 1–2 independently tunable channels. Ideal for space-limited test racks, and each unit ensures high frequency accuracy, stability, and phase coherency via Holzworth’s multi-loop architecture.

- Fully isolated, independent channels for unmatched signal integrity and control
- Phase-coherent channels ensure precise synchronization across all outputs
- Exceptional channel-to-channel stability for precise, phase-locked performance
- Scalable frequency range: 10 Hz to 3, 6, 12, or 20 GHz, tailored to your application
- Typical phase noise performance at a 10 kHz offset:
 - 6 GHz: -135 dBc/Hz
 - 12 GHz: -123 dBc/Hz
 - 20 GHz: -118 dBc/Hz

HA7162D Phase Noise Analyzer



The Holzworth HA7162D delivers high-performance, real-time phase noise analysis with unmatched precision. Supporting both absolute and additive measurements, it's the go-to solution for RF and microwave testing in aerospace, communications, and quantum applications.

- Capture offset frequencies from 0.1 Hz to 100 MHz with exceptional clarity
- Automated absolute and residual (additive) phase noise measurements for streamlined analysis
- Real-time cross correlation improves dynamic accuracy and reduces measurement time
- Wide input frequency coverage: 10 MHz to 26 GHz, with optional extension to 40 GHz



Going to IMS 2025?
Visit us at Booth
- 1032 & 727-



Maury Microwave

Solid State Amplifiers to 67GHz



Maury Microwave's Solid-State Amplifiers deliver reliable, high-performance power up to 67 GHz for a wide range of advanced applications. Engineered for precision and built to meet the demands of today's RF environments. These solid-state amplifiers are the trusted solution for test, measurement, and communication systems.

- Equipped with state-of-the-art GaN amplifiers for robust, efficient signal transmission
- Designed with wideband frequency coverage to power modern communication and defense systems
- Maintains strong, continuous power output across all operating frequencies
- Engineered for high linearity to support advanced wideband communication systems
- Integrated protection for enhanced reliability and hardware safety
- Flexible variable gain control for precise signal tuning
- High-resolution display provides clear, real-time amplifier status at a glance
- Power levels up to 1kW

StabilityPlus™

Cable Assemblies



Maury Microwave's StabilityPlus™ 1mm cable assemblies are engineered for ultra-high-frequency applications, offering reliable performance up to 110 GHz. Designed for phase and amplitude stability, these cables ensure precise measurements in demanding test environments.

- Covers DC to 110 GHz, delivering unmatched versatility for high-frequency test environments.
- Engineered to maintain signal integrity with $\pm 5^\circ$ phase stability and ± 0.10 dB amplitude stability during flexure and movement.
- Built with rugged construction and a flexible form factor to withstand continuous handling and tight bend radii without performance degradation.
- Optimized design ensures low VSWR and minimal insertion loss, even at ultra-high frequencies.
- Supports next-generation RF/microwave systems, including 5G, aerospace & defense, quantum, and MMWave technologies.
- Used by leading engineers worldwide for high-frequency interconnects where performance can't be compromised.



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ProTEQ is proud to announce our newest partnership with MI-WAVE

MI-WAVE is the industry leader in **microwave and millimeter wave technology** and a **trusted supplier** for **defense, aerospace,** and **telecom** sectors

-
- Specializes in advanced RF components and subsystems
 - Offers custom-engineered solutions for demanding applications
 - Known for innovation, precision, and reliability
 - U.S.-based manufacturing and global distribution reach
 - Directed Energy Systems for Manned and Unmanned Platforms
 - Next-Generation Defense and Commercial Applications

Want to explore MI-WAVE's newest technology?
Scan here to book a demo! →



Mi-Wave is a leading innovator in millimeter wave and microwave solutions, delivering high-performance components and systems trusted by industries worldwide. Known for precision engineering and unmatched frequency range capabilities, Mi-Wave empowers advanced RF applications with speed, accuracy, and reliability.

Pioneering Advanced Technology, Research & Mission Support:

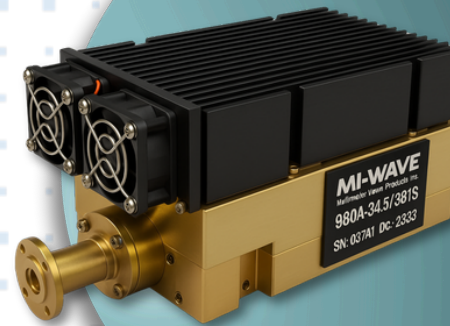
- Mi-Wave is a small business (SB) with three decades of experience, specializing in mission support, research, and advanced technology development for U.S. national defense.

Comprehensive Research & Development for Defense & Industry:

- We specialize in high-power RF and directed energy systems for manned and unmanned platforms, as well as next-generation defense and commercial applications.

Precision Manufacturing & Global Reach

- All our products are designed and manufactured in-house at our state-of-the-art R&D and production facility, ensuring the highest level of quality, performance, and reliability.



MI-WAVE Suite of Products

- Low-Noise, **Microwave & Millimeter Wave Power Amplifiers** to 110GHz
- Multi-Channel **Frequency Converters & Custom Upconverters/Downconverters**
- **Oscillators, Sources, PLOs, Synthesizers**
- Pin Diode **Voltage Variable Attenuators**, Voltage Controlled and Bi-Directional Attenuators
- **Waveguide Couplers, Isolators, and Circulators**



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