

**2025**

Q2 NEWSLETTER  
NEW ENGLAND EDITION

# THE PROTEQ PULSE

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

 **ProTEQ**  
Solutions

# TABLE OF CONTENTS

03

## **ProTEQ Contact Information**

*Need to reach us?* Find our phone number, website, and a link to schedule a demo or request more information

04

## **IEEE MTT-S International Microwave Symposium (IMS)**

Event details including date, location, and a QR code to the official site. Highlights ProTEQ's attending principal partners and their booth numbers.

05

## **Anritsu Rubidium MG362x1A**

Overview of the MG362x1A product - including links to the product information, and key features of this high-performance signal generator.

06

## **Maury Microwave HS9100 Series RF Synthesizers**

Overview of the HS9100 series - including links to additional product information, and key features of this next-generation signal generator.

07

## **Maury Microwave HA7162D**

Overview of the HS9100 series - including links to additional product information, and key features of this advanced phase noise and stability testing product

08

## **Maury Microwave Solid State Amplifiers (DC-110GHz)**

Overview of the Maury's solid state amplifier series - including links to additional product information, and key features of these robust and broadband amplifier solutions

09

## **Maury Microwave StabilityPlus Cable Assemblies**

Overview of Maury's cable assemblies - including links to additional product information, and key features of these precision-engineered cable assemblies

10

## **FormFactor EVOLVITY™ 300**

Overview of FormFactor's Evolvity™ 300 product - including links to additional information, and key features of FormFactor's latest semi-automated wafer probe system

11

## **Mi-Wave Millimeter Wave and Microwave Solutions**

Overview of Mi-Wave's technology, what they do and how they do it, and links to additional product information on the Mi-Wave website

# CONTACT INFORMATION





# IMS

Connecting Minds.  
Exchanging Ideas.

**JUNE 15 - 20**

**MOSCONE CENTER  
SAN FRANCISCO, CA**

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**

**Maury Microwave**

**Booth: 1032 & 727**

**AR / AMETEK®**

**Booth: 942**

**In-Phase  
Technologies, Inc.**

**Booth: 529**

**MI-WAVE**  
Millimeter Wave Products Inc.

**Booth: 1749**

# Anritsu

## Rubidium™ MG362x1A

Low Noise RF/Microwave  
Signal Generator

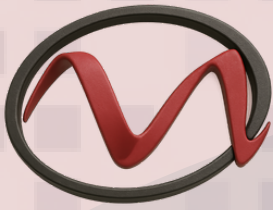


**Rubidium delivers unmatched signal purity, output power, and frequency stability—making it the ultimate solution for a wide range of measurement applications. With coverage from 9 kHz to 70 GHz, it offers exceptional performance and versatility across the entire frequency spectrum.**

- Very low phase noise at all offsets delivers exceptional signal clarity and precision
  - $-136 \text{ dBc/Hz (typ)}$  &  $-140 \text{ dBc/Hz (measured)}$  @ 10 GHz output, 10 kHz offset
- Minimal harmonic and spurious emissions for ultra-clean signal output
- Reliable high-frequency clock source with ultra-low jitter for maximum timing precision
- Quad pulse signal generation with pulse sweep functionality for versatile signal generation
- **Output Power:**
  - $+20 \text{ dBm @ } 20\text{GHz}$
  - $+16\text{dBm @ } 40\text{GHz}$
  - $+6\text{dBm @ } 70\text{GHz}$



**Going to IMS 2025?**  
Visit us at Booth  
- 2143-



# 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  $\pm 0.10$  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.



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



# FORMFACTOR

## EVOLVITY™ 300

300 mm Semi-Automated Probe System



**The EVOLVITY™ 300 is FormFactor's latest semi-automated engineering wafer probe system that is complementing the company's proven CM300 product line. Designed to simplify on-wafer probing, the EVOLVITY 300 features a compact, easy-to-use system, developed specifically for RF/DC Modeling and device characterization.**

- Mechanical platen lift enhances safety during complex RF set-ups, increasing operator confidence and minimizing the risk of errors.
- Fully compatible with FormFactor's Autonomous RF and DC measurement assistants, as well as Velox Dash™ companion app control.
- Quickly switch between TopHat, PCH, and IceShield inserts within minutes to support a wide variety of test configurations.
- Provides flexibility for both RF and DC setups without space limitations, ensuring easy integration of different configurations.
- Small footprint with field-upgradable components for smooth integration into existing test cells.
- Low-Volume MicroChamber and FemtoGuard Thermal Triaxial Chuck: Included by default



**Going to IMS 2025?**  
Visit us at Booth

- 750 -

# MI-WAVE

Millimeter Wave Products Inc.



**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:**

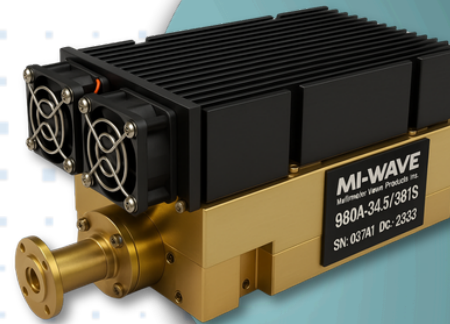
- Mi-Wave is a small business (SB) with three decades of experience, specializing in mission support, research, and advanced technology development for U.S. national defense.

### **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**



**Going to IMS 2025?**

Visit us at Booth

- 1749 -

# "BRIDGING INNOVATION AND INDUSTRY"



© 2025 ProTEQ Solutions. All Rights Reserved.

1 Tara Blvd - Suite 301 - Nashua, NH 03062