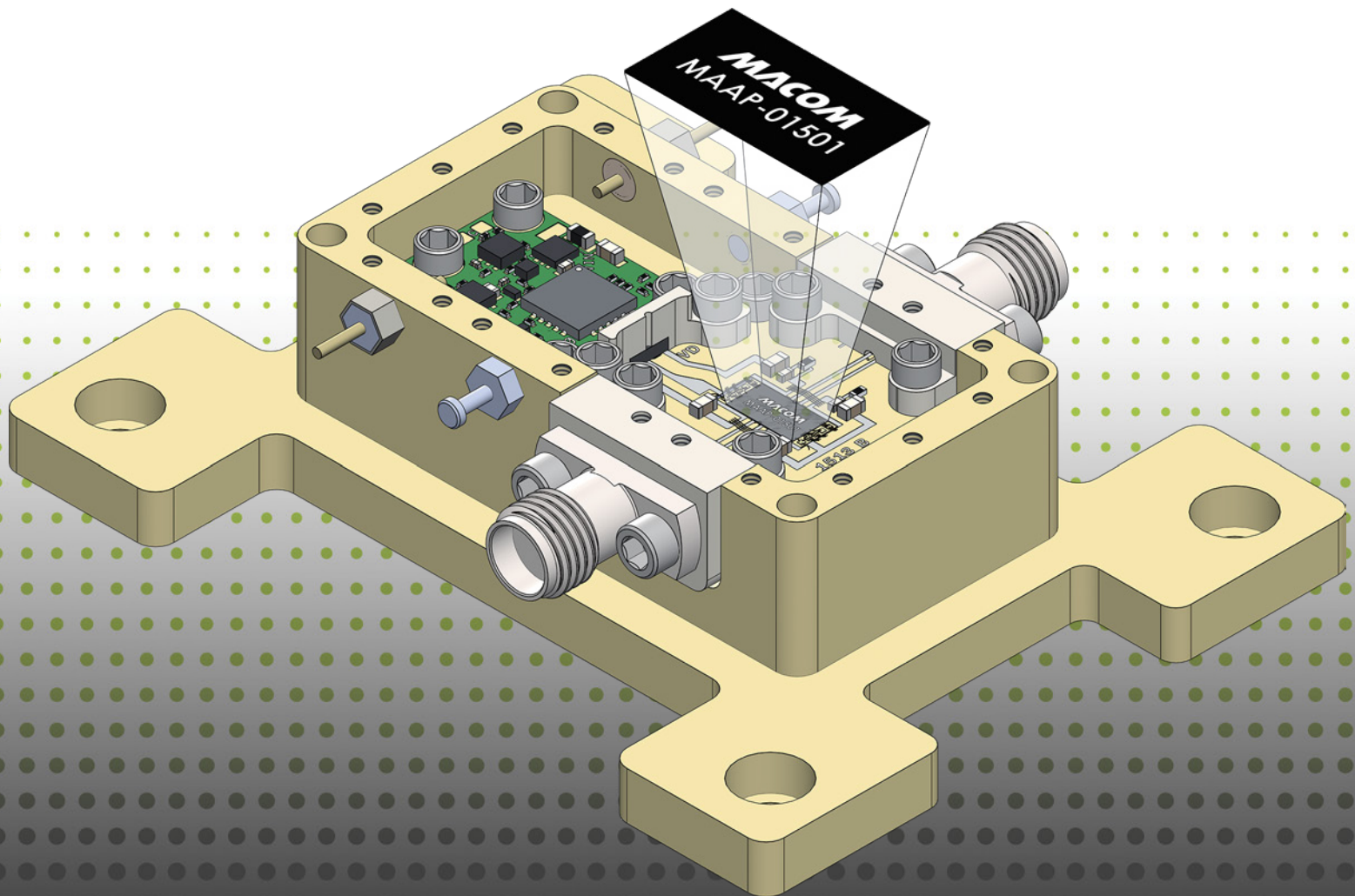


Spotlight on

# MACOM®



**X** microwave

# MACOM's X-MWblock® Availability

## Modular Building Block System

Over 200 MACOM X-MWblock Drop-In components covering many RF-device categories

- Drop-In and Connectorized options
- Bias and control boards available
- Prototype full signal chains
- Standard and custom production Integrated Microwave Assemblies



Amplifiers



Multipliers



Bias Controllers



Phase Shifters



Detectors



Switches



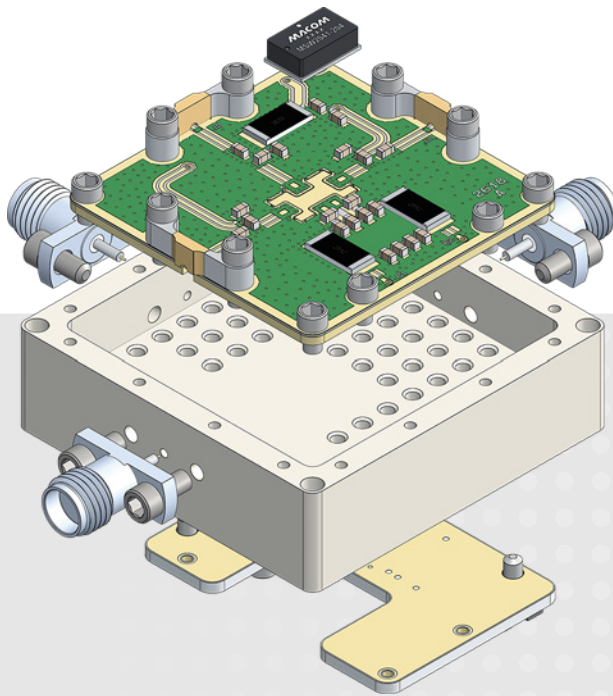
Digital Step Attenuators



Voltage Variable Attenuators



Mixers



### FEATURED PRODUCT

**MSW2041-204**  
**SP2T PIN Diode Switch**  
XM-D4E5-1010D

- Manufacturer Info & Specs
- Live S-Parameter Plot
- Bias & Sequencing
- Configurations
- Control Board

#### Learn more:

[qorvo.com](https://qorvo.com) > Design Hub > Design Tools > Evaluation Tools > X-Microwave Design System  
[xmicrowave.com](https://xmicrowave.com) > Products > X-MWblocks > Manufacturer > Qorvo



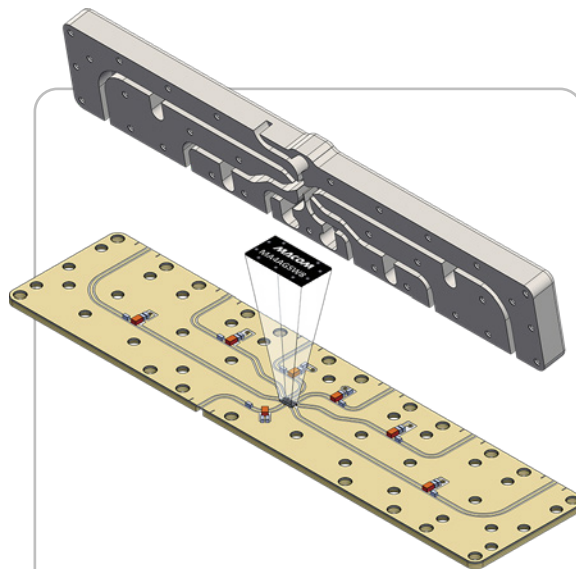
# Get on the Grid with X-Microwave

## Modular Platform

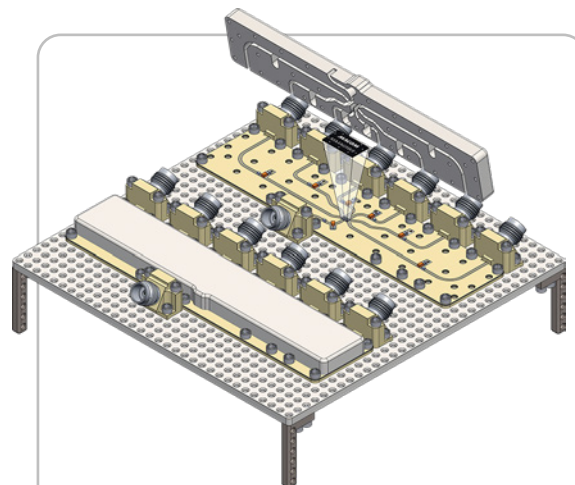
Design → Prototype → Production



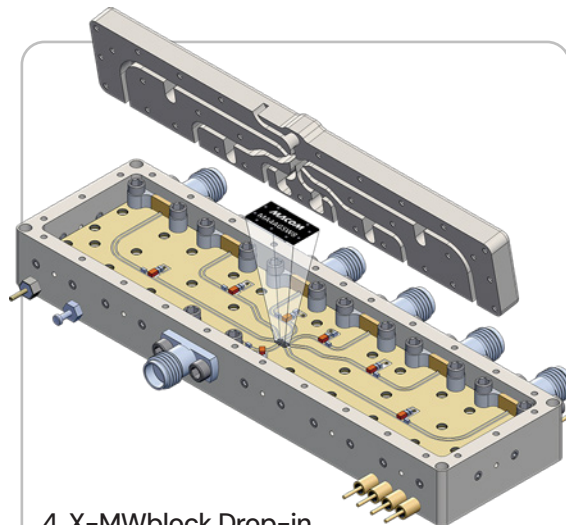
1. MACOM SP2T PIN Diode Switch DIE



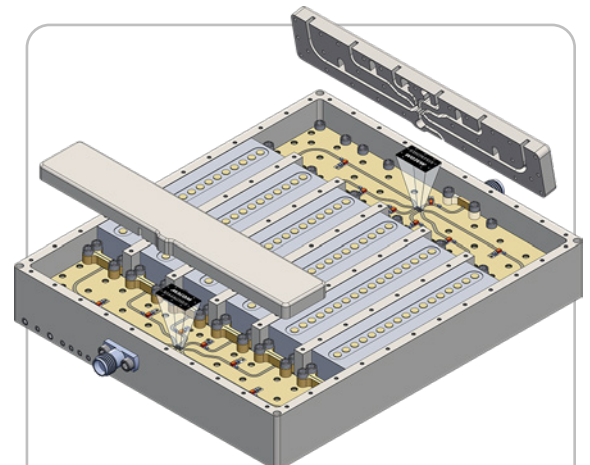
2. X-MWblock Drop-in on Copper Base



3. X-MWblock Drop-in on  
Prototype Plate Assembly



4. X-MWblock Drop-in  
in Integrated Microwave Assembly



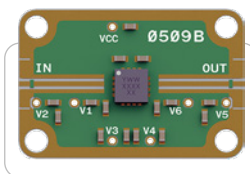
5. X-MWblock Drop-ins with Filters to  
Form a Switch Filter Bank IMA



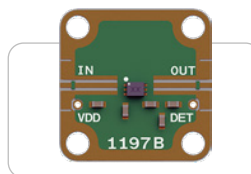




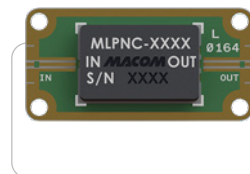
MACOM designs and manufactures high-performance semiconductor products for the Telecommunications, Industrial and Defense and Datacenter industries. MACOM services over 6,000 customers annually with a broad product portfolio that incorporates RF, Microwave, Analog and Mixed Signal and Optical semiconductor technologies. MACOM has achieved certification to the IATF16949 automotive standard, the ISO9001 international quality standard and the ISO14001 environmental management standard. MACOM has more than 70 years of application expertise with multiple design centers, Si, GaAs and InP fabrication, manufacturing, assembly and test, and operates facilities throughout the United States, Europe, and Asia.

**MAAD-011021**

- Digital Attenuator
- DC–30 GHz
- 6–Bit
- 31.5 dB range
- 0.5 dB LSB steps

**MACP-010573**

- Directional Power Detector
- 10–30 GHz
- Integrated Coupler
- Temp Compensated
- TDFN Plastic Package

**MLPNC-7102S1**

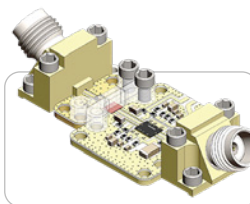
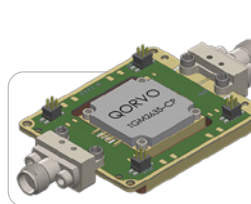
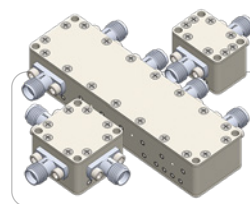
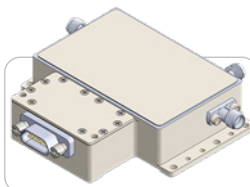
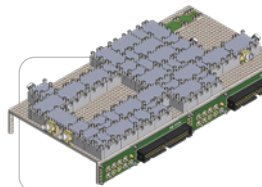
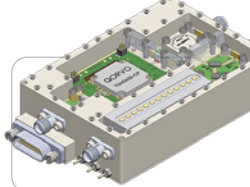
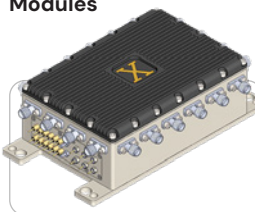
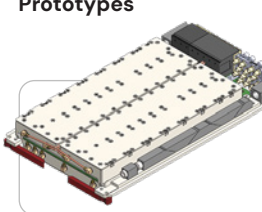
- NLTL Comb Generator
- Input: 300–700 MHz
- Input Power: 18–24 dBm
- Low Phase Noise
- SMT580 package

## X microwave

X-Microwave delivers industry-leading performance through advanced RF & Microwave solutions for the most demanding industries—from aerospace and defense to quantum computing to wireless infrastructure and radar. Compounding the value of X-MW's unrivaled domain expertise, our unique modular design system gets you to market faster than ever.

As part of an extended engineering ecosystem and powerful supply chain, we deliver a competitive advantage that extends to every customer.

To learn more, visit [www.xmicrowave.com](http://www.xmicrowave.com).

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Optimizing the RF and microwave design process from DC to 100 GHz by seamlessly merging design, prototyping and production.

**X-Microwave**

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