

In This Issue

[RF Simulators Emerge to Test Next Gen Phased Array](#)

[Series HBM Balanced Mixers](#)

[X band Surface Mount Circulator, 3SMH8ND](#)


[High Power X band Coaxial Isolator, 2A8NEG](#)

[GPS Amplified Splitter, 10ANAS-2S-1](#)

[MMW Needs... Choose HXI!](#)

We Don't Build Our Radio...We Don't Build Their Radio

HXI Builds YOUR Radio!



- Customizable Features/Services
 - Range Optimization
 - Redundancy (Low Latency (1-2 dB))
 - Analog Versions
 - Interfacing & Mounting
 - Alignment Tools
 - Field Applications
 - Installation/Alignment Training
 - on our Outdoor Range
 - Range Calculators & Site
 - Installation Recommendations
 - Consulting Services For Single Link & Multiple Hop Installations
- We Also Offer:
 - Band Interference Testing Tool
 - Bench Top Link Test & Qualification Equipment

Yes, we have standard radios in E-Band and at 60 GHz, but aren't there times when the standard just won't do? When you need a radio for a unique purpose, choose HXI to configure your link.

hxi Millimeter Wave Products
25 Lancaster County Road, Needham, MA 01945
978-772-7774 | sales@rec-usa.com | www.hxi.com



Components

- Low Noise Amplifiers
- Power Amplifiers
- Mixers and Detectors
- Gunn Oscillators and VCOs
- Frequency Multipliers
- PIN Switches and Attenuators
- Isolators and Circulators
- Power Dividers and Combiners
- Switches - Electromechanical

Integrated Assemblies

- Receiver Multicouplers
- Switch Matrices
- ATCA and uTCA Based Integrated Assemblies
- Up/Down Converters
- Pulse Radar, Radio Links
- Front Ends
- Millimeter Wave Radio Links
- HDTV Transceiver

www.rec-usa.com / www.hxi.com

RF Simulators Emerge to Test Next Generation Phased Array Radar Systems

The next generation of phased array radar systems currently being developed by military research laboratories and major defense contractors is expected to eliminate shortcomings in older systems for faster target detection, higher detection sensitivity, and clutter mitigation.

As a result, this research and development is concurrently driving demand for commercial testing and quality assurance products designed to simulate RF signals as they would appear in the field at varying distances and in more crowded urban environments.

[Read More...](#)

Series HBM Balanced Mixers

HXI's HBM series of broadband balanced mixers covers the waveguide bands from 18-110 GHz. They utilize a low loss structure mated to a matched pair of GaAs Schottky beam lead diodes for minimum conversion loss and maximum bandwidth. Superior LO noise suppression and LO-RF isolation values are inherent design features.

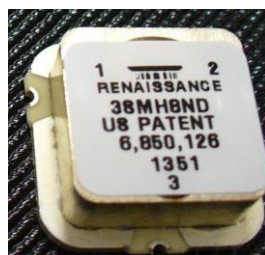


Biased versions are available for use with lower LO drive levels. Related components also available from HXI include LO frequency multipliers and Gunn oscillators/VCOs. An upconverter version of this mixer is available as series HBUC. (These mixers are not reciprocal and cannot operate as upconverters.)

[Datasheet Link](#)

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit www.rec-usa.com / www.hxi.com

X band Surface Mount Circulator, 3SMH8ND



Renaissance Electronics has produced an industry first, medium power handling surface mount circulator operating between 9.3 to 9.4 GHz. With a footprint of only 0.630" x 0.615", it is the smallest high power circulator available in the industry. 3SMH8ND exhibits insertion loss between 0.25 and 0.35 dB and isolation exceeding 25 dB at room temperature.

[Datasheet Link](#)

Switch Brochure

Click here to download our latest Switch brochure.

[Brochure Link](#)



[Join Our Mailing List!](#)

Stay Connected



[Vimeo](#)



[Linked In](#)



[YouTube](#)



[Blog](#)

In Stock, Ready to Sell!

Isolators, Circulators, Combiners available with volume discounts

[Isolators, Circulators, Combiners](#)

[Surface Mount SLE Isolators](#)

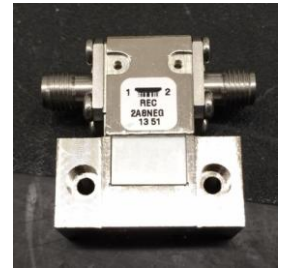
For more information about Renaissance/HXI products contact us at 978-772-7774 or visit www.rec-usa.com / www.hxi.com

High Power X band Coaxial Isolator, 2A8NEG

To protect expensive High Power Amplifiers operating at X-band, Renaissance has developed a new broadband coaxial isolator that operates from 9 to 9.6 GHz and can handle 50 W reflected power. Insertion loss of 0.5 dB is maintained over -40 to +85C. The reflected power is dissipated to the mounting surface with an extended heat sink that must be maintained below 50C for CW operations.

[Datasheet Link](#)

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit www.rec-usa.com / www.hxi.com



GPS Amplified Splitter, 10A4NAS-2S-1

Renaissance Electronics has designed a unity gain GPS splitter that passes DC on one output port and 200 ohm DC load on the other to simulate antenna current draw for receivers. It is designed for UAV applications with compact size, light weight and draws less than 10 mA of DC current.

[Datasheet link](#)

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit www.rec-usa.com / www.hxi.com.



Are you happy with your current Millimeter Wave Product supplier?
Either way, consider HXI Millimeter Wave Products

Why HXI?

- ✓ Complete product range
- ✓ Fast delivery of catalog components
- ✓ 25+ years average millimeter wave experience within engineering staff
- ✓ Optimum configurations for production systems or subsystems
- ✓ Expertise in military and commercial applications

- ✓ Low Noise Amplifiers
- ✓ Power Amplifiers
- ✓ Mixers and Upconverters
- ✓ Frequency Multipliers
- ✓ Switches and Attenuators
- ✓ Isolators and Circulators
- ✓ Radar Front Ends
- ✓ Digital and Analog Radio Links
- ✓ Custom Components and Subsystems

hxi Millimeter Wave Products
12 Lancaster County Road - Harvard, MA 01451
978-772-7771 • sales@hxi.com • www.hxi.com

Renaissance Electronics & Communications LLC/HXI LLC | 978-772-7774
sales@rec-usa.com | <http://www.rec-usa.com> | <http://www.hxi.com>
12 Lancaster County Road, Harvard, MA 01451