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New Thinking in Wireless and Radar Technology



Renaissance Electronics/HXI Wireless Edge Newsletter

July/August 2018

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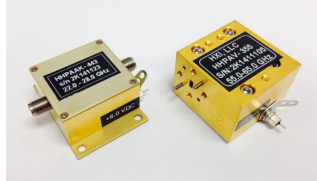
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RENAISSANCE logo, RF, Microwave and Millimeter Wave Integrated Assemblies, hxi logo

Space Qualified, RECAP table, RECAP table, RECAP table

New Thinking in Wireless and Radar Technology, K and Ka Band Isolators for Space Applications, REC is the preferred supplier on many Space Programs, Devices are completely made in USA at our "State of the art" facility in Newark, NJ, Comparison chart, Other Frequency bands are also available, Table with columns: Package, Freq Min (GHz), Freq Max (GHz), Part Numbers

Series HMPA and HHPA Power Amplifiers



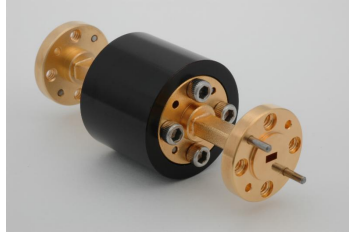
The HMPA and HHPA Series of Power Amplifiers cover the frequency range from 18 - 100 GHz. A wide variety of gain and bandwidth combinations are available to provide the designer with a solution for most applications.

Custom designs are available and in most cases, NRE is not required. MMIC technology is employed for high reliability and repeatability.

Series HMPA and HHPA

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

HFBI Series Faraday Isolator, 26.5 to 110 GHz



HXI's HFBI series of full band Faraday-type isolators are available from WR-28 through WR-10 waveguide sizes (26.5 to 110 GHz). These isolators provide superior isolation over a very wide band, which is their advantage over junctiontype isolators, making them desirable for test instrumentation

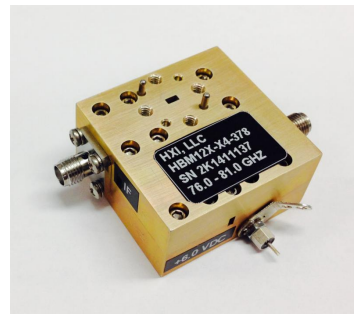
applications. HXI's quality waveguide and flanges used in the isolators provide precision connections between subsystem components with little impact on signal level and inter-component match.

HFBI Series Faraday Isolator

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Components for Auto Radar Development & Testing Applications

HXI has provided a number of customers with components in the 76 to 81 GHz range in support of the development and testing of automotive IC's and modules. Among these components are integrated mixer/multipliers, LNA's, power amplifiers and isolators. Both WR12 and WR-10 waveguide sizes are supported.



E-Band Mixer/X4 Frequency Multiplier

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**RENAISSANCE** *New Thinking in Wireless and Radar Technology* **hxi** Millimeter Wave Products

Surface Mount Isolators and Circulators  
200 MHz - 20 GHz

Frequency Band	SMT Circulators	SMT Circulators
200 - 1000 MHz	180 - 1800 MHz, 180 Series	200 - 2000 MHz, 200 Series
400 - 1800 MHz	400 - 1800 MHz, 200 Series	400 - 1800 MHz, 200 Series
400 - 1800 MHz	400 - 1800 MHz, 200 Series	400 - 1800 MHz, 200 Series
1 - 2 GHz	1.000 - 1.999 GHz, 200 Series 1.000 - 1.999 GHz, 200 Series 1.000 - 1.999 GHz, 200 Series	1.000 - 1.999 GHz, 200 Series 1.000 - 1.999 GHz, 200 Series 1.000 - 1.999 GHz, 200 Series
2 - 4 GHz	2.000 - 3.999 GHz, 200 Series 2.000 - 3.999 GHz, 200 Series 2.000 - 3.999 GHz, 200 Series	2.000 - 3.999 GHz, 200 Series 2.000 - 3.999 GHz, 200 Series 2.000 - 3.999 GHz, 200 Series
4 - 8 GHz	4.000 - 7.999 GHz, 200 Series 4.000 - 7.999 GHz, 200 Series 4.000 - 7.999 GHz, 200 Series	4.000 - 7.999 GHz, 200 Series 4.000 - 7.999 GHz, 200 Series 4.000 - 7.999 GHz, 200 Series
8 - 10 GHz	8.000 - 9.999 GHz, 200 Series 8.000 - 9.999 GHz, 200 Series 8.000 - 9.999 GHz, 200 Series	8.000 - 9.999 GHz, 200 Series 8.000 - 9.999 GHz, 200 Series 8.000 - 9.999 GHz, 200 Series

RENAISSANCE Electronics & Communications, LLC | 12 Lancaster County Road, Harvard, MA 01451  
Tel: 978-772-7774 | Email: sales@rec-usa.com

**In Stock, Ready to Sell!**

Isolators, Circulators, Combiners available with volume discounts

Isolators, Circulators, Combiners

Surface Mount SLE Isolators

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**RENAISSANCE** *New Thinking in Wireless and Radar Technology* **hxi** Millimeter Wave Products

**SWITCH MATRICES**  
400 - 6000 MHz  
Ethernet / GUI Controlled  
Available for Delivery in 4 - 6 Weeks



18A6BAC 4 x 48



18A6BAQ 8 X 8



18A6BAF 8 X 96



18A6BAY 24 X 12

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**REC/HXI Product Lines**  
DC to 300 GHz

**RENAISSANCE** *New Thinking in Wireless and Radar Technology* **hxi** Millimeter Wave Products

**RF MICROWAVE PRODUCTS: DC TO 40 GHz**

- CIRCULATORS/ISOLATORS**
  - Surface Mount, Coaxial, Dipole, Stripline, and Waveguide
  - Standard Custom Packaging
  - Low Loss, High Isolation
  - High Power to 100W
  - Custom Board Designs
  - Custom Designs
- SWITCHES/ATTENUATORS**
  - High-Power Electromechanical - up to 100W, 100V, 1000V
  - High Power, Low Loss
  - Small Size
  - RF Coaxial, Waveguide, Cable
- SWITCH MATRICES**
  - Electromechanical, Solid-State or MEMS
  - RF MEMS
  - High-Isolation Reconfigurable
  - High-Throughput
  - RF & Custom Applications
- BASE STATION**
  - IC Components
  - Small, Small Cell Components/Assemblies
  - Small-Form-Factor Components
  - Power Divider Components/Assemblies
  - Repeater Modules/Assemblies

**SPECIALTY PRODUCTS**  
SPACE QUALIFIED, HIGH RELIABILITY AND CUSTOM

- CMF to MIL Specs
- Radiation Hardened
- Low Loss, Temperature Stable
- High Isolation
- Hermetic Sealed
- ESD Protected
- Spacecraft's Outgoing Requirements

**HXI MILLIMETER WAVE PRODUCTS: 30 GHz to 125 GHz**

- RADAR FRONT ENDS**
  - Custom to 100 GHz Capability Range
  - Active Radar, Passive Radar, Synthetic Aperture Radar
  - RFICs and Power RFICs
  - Integrated Transmitters for Production
  - Monolithic and Multi-Chip Configurations
  - Low-Band VCOs and ECDs/External Drivers
  - Reconfigurable Components for Broadbanding
  - Fast P-Indeging
- RADIOS**
  - Lower Latency in the Industry (20G)
  - 100 GHz to 125 GHz Bandwidth
  - 100 GHz to 125 GHz Bandwidth
  - 100 GHz to 125 GHz Bandwidth
  - 100 GHz to 125 GHz Bandwidth
- AUTO RADAR TEST SOLUTION**  
8-BAND RADAR TRANSMITTERS

**COMPONENTS**

- Filters & Upconverters
- Frequency Mixers
- Line
- Power Amplifiers
- Integrated Transmitters for Production
- Monolithic and Multi-Chip Configurations
- Low-Band VCOs and ECDs/External Drivers
- Reconfigurable Components for Broadbanding
- Fast P-Indeging
- Hermetic Seals
- Only Outputs and VCOs
- Custom
- Power Dividers
- Frequency Converters
- Waveguide Products

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**REC Parts Catalog**

Renaissance has created a new electronic catalog. It is a downloadable, searchable spreadsheet of our parts. Easy tool to sort, search and locate the perfect part for your needs. If you don't see what you need, just call or [email](mailto:sales@rec-usa.com) us!

[Renaissance Catalog](#)

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