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## Happy New Year!

Help us shape our future and we'll help you shape yours!

As valued subscribers to our newsletter, we are asking you to weigh in on our current and future product offerings. The first 50 individuals to click [here](#) and answer our brief survey will be entered in a drawing to win a

## FREE Fitbit!

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit [www.rec-usa.com](http://www.rec-usa.com) / [www.hxi.com](http://www.hxi.com)

## Circulators for ADS-B (Automated Dependent Surveillance-Broadcast) Transponders



Renaissance has developed a high power circulator (50W) R3G3NBVL that can operate at high altitudes, 50,000 ft, in the frequency 978-1090 MHz for ADS-B transponders.

ADS-B is a surveillance technology in which an aircraft determines its position via satellite navigation and periodically broadcasts it to be tracked. This enables the ground station to track the flight in real time. Further, aircrafts fitted with ADS-B systems will convey the information with regard to weather, traffic and flight information.

It has been mandated by FAA that all aircrafts should be fitted with ADS-B system by 2020. Eventually radar based ATCs will be replaced by satellite based ADS-B system.

[R3G3NBVL Datasheet](#)

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## AutoPoint Alignment System

HXI's AutoPoint System, designed exclusively for HXI Radios, provides mmWave radio path alignment from any remote location. It is the perfect solution to align and maintain high bandwidth directional antennas for many communication applications.



AutoPoint is a complete hardware and software solution. It can be used to "fine tune" initial alignment, and more importantly, can be used to re-align your link as required. The Web based user access makes it easy to optimize link performance regardless of the time of day, season, or current weather conditions.

## In Stock, Ready to Sell!

Isolators, Circulators, Combiners available with volume discounts

[Isolators, Circulators, Combiners](#)

[Surface Mount SLE Isolators](#)

### [AutoPoint Alignment System Datasheet](#)

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## 22 - 26 GHz Coaxial Circulator, K-band

Looking for a broadband circulator for ultra wide band radar that detects and tracks objects around an automobile? Renaissance's 3A9NAE operates from 22 to 26 GHz with loss < 0.5 dB and is ideal for range, angle and doppler velocity radars.

[3A9NAE Datasheet](#)

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit [www.rec-usa.com](http://www.rec-usa.com) / [www.hxi.com](http://www.hxi.com)

## 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!

[Renaissance Catalog](#)

  			
<b>RF &amp; MICROWAVE PRODUCTS: DC – 40GHz</b>			
<b>CIRCULATORS/ISOLATORS</b>  <ul style="list-style-type: none"> <li>• Standard/Custom Frequencies</li> <li>• Surface Mount, Coaxial, Drop-In, Waveguide and Microstrip</li> <li>• Low Loss, High Isolation</li> <li>• High Power to 10KW</li> </ul>	<b>SWITCHES/ATTENUATORS</b>  <ul style="list-style-type: none"> <li>• High Rel Electromechanical               <ul style="list-style-type: none"> <li>- Long-life (10M cycles)</li> <li>- True Hermetic, Laser Welded</li> </ul> </li> <li>• Solid State               <ul style="list-style-type: none"> <li>- PIN Diode, MEMS, GaAs</li> </ul> </li> </ul>	<b>SWITCH MATRICES</b>  <ul style="list-style-type: none"> <li>• NxM Matrices</li> <li>• Reciprocal/Non-Reciprocal</li> <li>• Blocking/Non-Blocking</li> <li>• Electomechanical, Solid-State or MEMS</li> <li>• ATE &amp; Custom Application</li> </ul>	<b>BASE STATION</b>  <ul style="list-style-type: none"> <li>• DAS, Small Cell Components/Assemblies</li> <li>• Multi-Band/Transmitter Combiners</li> <li>• Power Dividers/Combiners/Duplexers</li> <li>• Receiver Multi-Couplers/LNAs</li> </ul>
<b>HIGH FREQUENCY PRODUCTS: 30GHz – 110GHz</b>		<b>SPACE QUALIFIED PRODUCTS</b>	
<b>RADIOS and RADARS</b>  <ul style="list-style-type: none"> <li>• Low Latency (&lt;2nS) Radios</li> <li>• 60 GHz, 70/80 GHz Radios</li> <li>• Customizable Features and Services</li> <li>• X-Band to 100 GHz Radars</li> <li>• FMCW and Pulsed RFEs</li> </ul>	<b>COMPONENTS</b>  <ul style="list-style-type: none"> <li>• Mixers &amp; Upconverters</li> <li>• Frequency Multipliers</li> <li>• LNAs</li> <li>• Power Amplifiers</li> <li>• Switches &amp; Attenuators</li> </ul>	 <ul style="list-style-type: none"> <li>• L, S, C, X, Ku-Ka Bands</li> <li>• Microstrip, Coaxial and Drop-In Isolators</li> <li>• Compact Size</li> <li>• Low Loss, Temp Stable</li> <li>• High Isolation</li> <li>• Meets NASA's outgassing requirements</li> </ul>	
Renaissance Electronics & Communications, LLC		12 Lancaster County Road, Harvard, MA 01451	
		Tel: 978-772-7774	
		<a href="http://www.rec-usa.com">http://www.rec-usa.com</a>	