

## In This Issue

[Renaissance Offers Space Qualified Products](#)

[8.0 GHz Coaxial Isolator - Space Qualified](#)

[6.7 GHz Drop-In Isolator - Space Qualified](#)

[20 GHz Micro-strip Isolator - Space Qualified](#)



**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 Multiplexers
- Switch Matrices
- ATCA and uTCA Based Integrated Assemblies
- Up/Down Converters
- Pulse Radar, Radio Links
- Front Ends
- Millimeter Wave Radio Links
- HOTV Transceiver

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

## Switch Brochure

Click here to download our latest Switch brochure.

[Brochure Link](#)



**Switch Matrix**

Company Profile

Additional Resources

Join Our Mailing List!

## Renaissance Offers Space Qualified Products

To protect the space communication payload electronics, Renaissance has designed a variety of products from L band to Ka band for the Space Industry. Main features include Hermetic, Rad Hard and compact size in connectorized, drop-in and surface mountable packages. These devices meet all of NASA's outgassing requirements.

See below for just a few of our available Space Qualified Products, and please go to [Renaissance Space Qualified](#) to see our wide range of available frequencies.



- S Level Isolators & Circulators
- S Level Power Dividers & Combiners
- S Level RF switches

Renaissance Electronics & Communications, LLC (together with P&H Labs/MCCI Wireless and HXI) is a leader in the design and manufacture of S-level qualified isolators, circulators, power dividers and combiners and RF switches. These devices are used in payloads and earth stations for signal synthesis and routing. Renaissance is the first in the industry to produce a truly Hermetic Electromechanical SPDT switch that uses laser welding and glass to metal seals.

Renaissance Electronics has been supplying high-reliability S-Level products for leading programs including Mars Lander, Sea Launch, ICONIS, EchoStar, Astra 1K, Globalstar, PanAmSat, Telstar-8, WildBlue, IP Star, Direct TV-7, GOES, SBIRS, TDRSS, ArabSat, TurkSat, Intersat VII/VIII, Ausat, INSAT, Westar and INTELSAT VIII.

Renaissance offers innovative and unique solutions to satisfy the customers requirements. The highly talented and qualified engineering team assists the customer from concept to product launch, supported by a state-of-the-art design center and manufacturing facility, has been the core competency for successfully developing various technologies. The full-service laboratories perform comprehensive environmental, mechanical and electrical testing. Our in-house capability allows us to control all processes all processes with in-house machining, fabrication, assembly and acceptance and qualification testing. Full performance characteristics at various temperatures and altitudes are available for each product. All the components are in full compliance with NASA specification NHB-5300.4.

The complete space compliance test process includes - Qualification Test Planning, Traceability and Process Controls, Acceptance Testing for In-Process, Final and Destruct Physical Analysis.

DESCRIPTION	MIL STD 202		MIL STD 883	
	Method	Test Condition	Method	Test Condition
Thermal Shock	107	All	1010	All
Mechanical Shock	213	All	2002	A, B
Vibration- Sine	204	All	2007	All
Vibration- Random	214	All	2026	All
Resistance to Soldering heat	210	A,B		
Thermal Vacuum	105	E		
Humidity	106			
Resistance to Solvents	215		2015	
Gross leak - Seal	112	D		
Fine Leak	112	C		
Constant Acceleration	212	A		
Stabilization Bake			1008	A, B
Wire Bond pulling			2011	



## Stay Connected



[Vimeo](#)



[Linked In](#)



[YouTube](#)



[Blog](#)

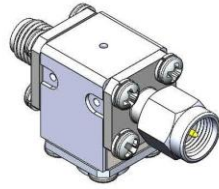
## In Stock, Ready to Sell!

Isolators, Circulators,  
Combiners available with  
volume discounts

[Isolators, Circulators,  
Combiners](#)

[Surface Mount SLE Isolators](#)

## Coaxial Isolator - 8.0 GHz



[2A7NFC-S Datasheet](#)

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit

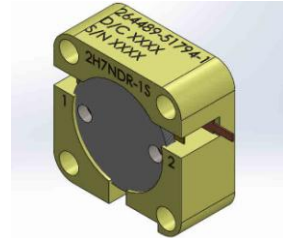
[www.rec-usa.com](http://www.rec-usa.com) / [www.hxi.com](http://www.hxi.com)

## Drop-In Isolator - 6.7 GHz

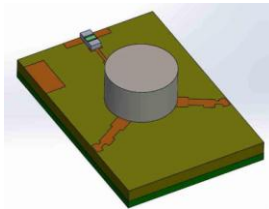
[2H7NDR-S Datasheet](#)

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)



## Micro-strip Isolator - 20 GHz



[2W9NCA-S 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)

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