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New Thinking in Wireless and Radar Technology



Renaissance Electronics/HXI Wireless Edge Newsletter

July/August 2016

In This Issue

[Renaissance is Celebrating 25 Years!](#)

[HXI: Reseller of Farran Technology Products](#)

[14.6-15.3 GHz SMT Isolator, Ku Band](#)

[100-1690 MHz Drop-in Circulator](#)

[500-690 MHz Drop-in Circulator](#)

[REC/HXI Product Lines](#)

[REC Parts Catalog](#)

TEST CAPABILITIES		REVISIONS	
DESCRIPTION	DATE	REVISION	DESCRIPTION
Design Drawings	02/07	0001	Initial Design
Mechanical Drawings	03/07	0002	Final Design
Material Spec	04/07	0003	Final Design
Assembly Drawing	05/07	0004	Final Design
Test Plan	06/07	0005	Final Design
Test Report	07/07	0006	Final Design
Customer Acceptance	08/07	0007	Final Design
Final Approval	09/07	0008	Final Design

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Renaissance is Celebrating 25 Years!



Renaissance is proud to be celebrating 25 years! Thank you to all of our employees, customers and suppliers, we are looking forward to the next 25!

HXI: A Reseller of Farran Technology Products

HXI is proud to announce that we have become a reseller of Farran Technology Waveguide and Instrumentation products in the United States. We are looking forward to a mutually successful relationship!

[HXI/Farran Products](#)

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

27 - 32 GHz Coaxial Isolator, Ka-band

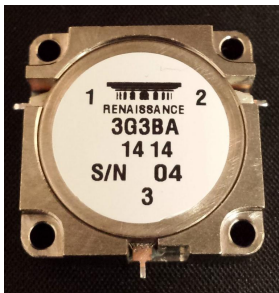


For SATCOM on-the-Move (SOTM) terminals, Renaissance has designed a compact low loss isolator with K-connectors to support the bandwidth requirement of 27 to 32 GHz. The power handling on this model is 25 W CW and 100 W PK.

[2A9N JH Datasheet](#)

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1100 - 1690 MHz Drop-in Circulator



For the Marine Satellite communication radios, Renaissance has designed a broad band, high power circulator in a compact size of 1" square. Covering 1.1 to 1.7 GHz, this design has loss of 1 dB and can handle up to 50 W CW at +95C.

[3G3BA Datasheet](#)

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In Stock, Ready to Sell!

Isolators, Circulators, Combiners available with volume discounts

Isolators, Circulators, Combiners

Surface Mount SLE Isolators

500 - 690 MHz Drop-in Circulator



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.

[3G2BF Datasheet](#)

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REC/HXI Product Lines DC to 300 GHz

The screenshot displays the Renaissance/HXI product catalog website. It features several sections:

- RF MICROWAVE PRODUCTS: DC TO 40 GHz**
 - CIRCULATORS/ISOLATORS**
 - Surface Mount, Coaxial, Drop-in, Monopole and Monopole
 - Standard/Custom Frequencies
 - Low Loss, High Isolation
 - High Power to 100W
 - Optical Band Designs
 - SWITCHES/ATTENUATORS**
 - High-Pwr. Electromechanical (up to 100W)
 - True Hermetic, Laser Welded
 - Small Size (Pb-Free, MEMS, GaAs)
 - SWITCH MATRICES**
 - N x M Matrices
 - Reprogrammable/Reconfigurable
 - Electromechanical
 - Solid State or MEMS
 - LATE & Custom Applications
 - BASE STATION**
 - DNA - Small Cell Components/Transmitters
 - Multi-Band Transmitter Components
 - Power Divider/Combiners/Duplexers
 - Reconfigurable Components/Links
- SPECIALTY PRODUCTS**
 - SPACE QUALIFIED, HIGH RELIABILITY AND CUSTOM
 - 100% In-House
 - Comped Size
 - Low Loss, Temperature Stable
 - High Isolation
 - Hermetic Sealed
 - Multiplexers
 - Meets NASA's Outgoing Requirements
- HXI MILLIMETER WAVE PRODUCTS: 20 GHz TO 325 GHz**
 - RADIOS**
 - Lowest Latency in the Industry (20C)
 - 40 GHz, 70GHz Radars
 - Auto Point Alignment
 - HD-QC Wireless Link for Fixed and Mobile Applications
 - Customizable Features and Services
 - RADAR FRONT ENDS**
 - Scalable to 100 GHz Radars
 - FMCW and Pulsed RFEs
 - COMPONENTS**
 - Micro & Upconverters
 - Frequency Multipliers
 - LNAs
 - Power Amplifiers
 - Low Noise Amplifiers
 - Circulators/Isolators
 - Passive Multipliers
 - Sub-Harmonic Mixers
 - Harmonic Mixers
 - Quasi-Duplexers and VCOs
 - Detectors
 - Power Dividers
 - AUTO RADAR TEST SOLUTION**
 - 6-BAND IN-LINE TRANSDUCERS
 - Block diagram showing RF Input (20-40 GHz) and RF Output (20-40 GHz) paths through various components like HEMT, BPF, and PA.

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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!

[Renaissance Catalog](#)

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