### Space Qualified Products

| Isolators/Circulators                  | 240 – 270 MHz Coaxial Circulator, 3A1NDK-S  
|                                      | 600 – 900 MHz Coaxial Circulator, 3A2NHY-S  
|                                      | 2.2 – 2.4 GHz Coaxial Circulator, 3A4NPF-S  
|                                      | 2.2 – 2.3 GHz Coaxial Isolator, 2A4NX-S     
|                                      | 2.2 – 2.4 GHz Coaxial Isolator, 3A4NPE      
|                                      | 7.8 – 8.4 GHz Coaxial Isolator, 2A7NF-S     
|                                      | 7.8 – 8.4 GHz Coaxial Isolator, 2A7NF-D-S   
|                                      | 19.5 – 21.0 GHz Coaxial Circulator, 3A9NAD-S 
|                                      | 27.0 – 31.0 GHz Coaxial Isolator, 2A9NFH-ROHS 
|                                      | 27.5 – 30.5 GHz Coaxial Isolator, 2A9NV-1    
|                                      | 1.116 – 1.236 GHz Drop-In Isolator, 2H2NHI-S 
|                                      | 1.515 – 1.635 GHz Drop-In Isolator, 2H3NCl-S 
|                                      | 2.1 – 2.3 GHz Drop-In Isolator, 2H3NCDL-S    
|                                      | 5.014 – 5.114 GHz Drop-In Isolator, 2H6NBR-S 
|                                      | 5.096 – 5.196 GHz Drop-In Isolator, 2H6NBS-S 
|                                      | 6.60 – 7.32 GHz Drop-In Isolator, 2H7NDR-S   
|                                      | 7.9 – 8.4 GHz Drop-In Isolator, 2H7NDO-S     
|                                      | 7.9 – 8.5 GHz Drop-In Isolator, 2L9NH-Z-S    
|                                      | 7.9 – 8.5 GHz Drop-In Isolator, 2H7NEH-S     
|                                      | 7.9 – 8.5 GHz Drop-In Isolator, 2K7NDE-S     
|                                      | 8.0 – 12.0 GHz Drop-In Circulator, 3J8BML-S  
|                                      | 8.5 – 11.5 GHz Drop-In Isolator, 2K8NB-A-S   
|                                      | 10.5 – 12.0 GHz Drop-In Isolator, 2L9NH-Z-S  
|                                      | 7.9 – 8.5 GHz Drop-In Isolator, 2K7NDE-S    
|                                      | 8.0 – 8.5 GHz Drop-In Isolator, 2L8N8C-S     
|                                      | 11.1 – 13.7 GHz Drop-In Isolator, 2K8NBB-S   
|                                      | 30.0 – 31.0 GHz Drop-In Isolator, 2L9NDZ    
|                                      | 30.0 – 33.0 GHz Drop-In Isolator, 2L9NEU-ROHS 
|                                      | 31.0 – 33.0 GHz Drop-In Isolator, 2L9NF6    
|                                      | 17.3 – 18.6 GHz Microstrip Isolator, 2W9NCO-S 
|                                      | 18.3 – 20.2 GHz Microstrip Isolator, 2W9NCR-S 
|                                      | 19.0 – 21.0 GHz Microstrip Isolator, 2W9NCA-S 
|                                      | 23.1 – 23.6 GHz Microstrip Isolator, 2W9NBW-S 
|                                      | 26.0 – 26.50 GHz Microstrip Isolator, 2W9NBV-S 
|                                      | 33.0 – 35.0 GHz Microstrip Isolator, 2W9NCS-S 
|                                      | 7.3 – 8.0 GHz Surface Mount Isolator, 2W5M7NA-S 
|                                      | 22.0 – 25.0 GHz Surface Mount Isolator, 2W5MH9NDO-S 
|                                      | 29.5 – 31.0 GHz Waveguide Isolator, 2W5R34NA  
| Couplers                             | 5.0 – 6.0 GHz Directional Coupler, 12A7NA-40S 
| Power Dividers                      | 1 – 30 MHz Power Divider, 10A2BA-D-2S        
|                                      | 1 – 30 MHz Power Divider, 10A2BAG-2S         
|                                      | 1 – 500 MHz Power Divider, 10A3BAC-2S       
|                                      | 220 – 450 MHz Power Divider, 10A2BAF-2S     
|                                      | 1.0 – 2.0 GHz 4-Channel Power Divider, 10A2NJ-4S 
|                                      | 1.1 – 1.5 GHz High Power Divider, 10A3NB-85  
|                                      | 2.1 – 2.4 GHz 2-Channel Power Divider, 10A4NAJ-2S-S 
|                                      | 2.0 – 4.0 GHz 8-Channel Power Divider, 10A5BBA-J-8S 
| GPS Splitters                       | 1.2 – 1.6 GHz Unity Gain GPS Splitter, 10A4NAS-2S-1 
|                                      | 1.2 – 1.6 GHz 2-Channel Unity Gain GPS Splitter, 10A4NP-2S-1 
| Switches                            | 2.0 – 2.3 GHz Hermetic Switch, 5W-316       |
Space Qualified Capabilities

Renaissance Electronics supplies high-reliability space qualified products for leading programs including Mars Lander, Sea Launch, ICONIS, Echostar, Astra 1K, Globalstar, PanAm- Sat, 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 customer requirements. The highly talented and qualified engineering team who would assist the customer from concept to product launch are supported by a state-of-the-art design center and manufacturing facility. The full-service laboratories perform comprehensive environmental, mechanical and electrical testing. Utilizing the full-fledged in-house capability, Renaissance controls virtually all processes with in-house machining, fabrication, assembly 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.

Space compliance test processes include - Qualification Test Planning, Traceability and Process Controls, Acceptance Testing for In-Process, Final and Destructive Physical Analysis, to name a few.

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For more information about these products, contact: Renaissance/HXI Sales at 978-772-7774, sales@rec-usa.com or go online at www.rec-usa.com / www.hxi.com