

In This Issue

[Why Wireless MMW Radios Will Fuel the Coming Microcell Boom](#)

[HMPA and HHPA Power Amplifiers](#)

[300 MHz High Power Circulator, 3A2NGB](#)

[X-band Drop-in Isolator, 2H7NDQ](#)

[R3G6NV Drop-in Circulator](#)

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Why Wireless Millimeter Wave Radios Will Fuel the Coming Microcell Boom

With proliferation of micro and picocell base station installations, wireless millimeter wave radios are being used to solve backhaul connectivity challenges

As carriers continue to roll out LTE networks to meet the overwhelming demand for mobile broadband data services, small cellular base stations, called micro and picocells, are expected to proliferate across the landscape over the next several years.

In cellular networks, these small cell towers, or base stations, are used to extend coverage to indoor areas where outdoor signals do not reach well, or to add network capacity in highly populated locations.

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Series HMPA and HHPA Power Amplifiers

The HMPA and HHPA Series of Medium and High Power Amplifiers covers select bands from 20 to 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 many cases NRE is not required. MMIC technology is exclusively employed for high reliability and repeatability. Each power amplifier contains a voltage regulator and bias sequencer allowing the use of a single bias voltage to power the amplifier, saving the user the complication of providing this circuitry.



The amplifiers can be used in radar or communications systems transmitters and also as gain blocks in LO chains and test equipment. Low noise amplifier stages can be combined with the power amplifier stages for high gain/high P1dB performance. The power amplifiers can also be packaged with other functions for custom configurations.

[Datasheet Link](#)

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

300 MHz High Power Circulator, 3A2NGB

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Renaissance has designed a high Peak and Average Power handling circulator covering 260-300 MHz. With low loss of 0.3 dB and isolation of 20 dB, it is optimized for Aeronautical Communications & Navigation applications.

[Datasheet Link](#)

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



X-band Drop-in Isolator, 2H7NDQ

Renaissance has developed a new drop-in isolator to handle 25 W of reflected power in a compact size of 0.5" x 0.75" at X band frequencies. Covering 7.9 - 8.4 GHz, this isolator provides a VSWR of 1.25:1 at input and output ports with loss of 0.5 dB and isolation of 20 dB over -40 to +85 C. It is specifically designed for Mobile Satellite architecture.

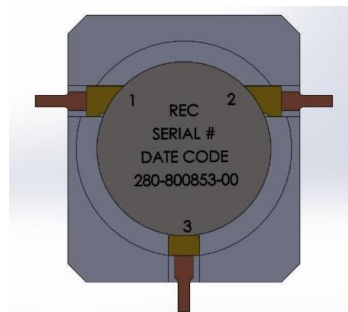
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For more information about Renaissance/HXI products contact us at 978-772-7774 or visit www.rec-usa.com / www.hxi.com



R3G6NV, Drop-In Circulator

Renaissance Electronics has designed a drop-in circulator, Model R3G6NV. This Isolator operates 4.3 to over 5GHz with a 20 dB minimum isolation, 1.20:1 maximum VSWR and 0.4 dB maximum loss.



[Datasheet link](#)

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