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Renaissance Electronics/HXI Wireless Edge Newsletter

September/October 2019

60 GHz Phase-Locked Receiver and Transmitter

HXI’s Phase-Locked Receiver and Transmitter operate at a center frequency of 60 GHz, which is the location of the oxygen absorption band where low elevation transmission losses are approximately 16 dB per kilometer. They can be used in combination for propagation studies, material characterization, as an analog communications link or even as an FMCW or pulsed radar front end.

HXI can offer variations of this receiver and transmitter, with options such as a synthesizer in place of a fixed frequency local oscillator, a higher power, higher gain amplifier, the addition of an antenna, etc. We can also provide similar transmitters and receivers from X-Band through 110 GHz.

60 GHz Phase-Locked Receiver
60 GHz Phase-Locked Transmitter

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

17.8 - 19.3 GHz Waveguide Isolator, K-Band

Renaissance’s latest K-band waveguide isolator is ideal for high power RF/microwave waveguide communication systems where coaxial cables just won’t do. Offering a combination of high isolation and low insertion loss, this isolator operates in a frequency range of 17.8 - 19.3 GHz.

2WR51-5-ROHS Datasheet

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8.0 - 8.5 GHz Drop-In Isolator, X-Band

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit www.rec-usa.com / www.hxi.com
Operating at 8 - 8.5 GHz, Renaissance has designed a space qualified X-band drop-in isolator. Ideal for upconverters, this isolator has low VSWR in a small footprint.

2L8NBC-S Series Datasheet

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470 - 860 MHz 2:1 Combiner, UHF-Band

Renaissance has designed a high-power UHF-band 2:1 combiner for use in communication systems, instrumentation applications and military mobile devices. This 470 - 860 MHz combiner features low amplitude and phase balance, along with a power input of 330 Watts per channel.

9A2NAJ Datasheet

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HXI Builds Your Radio!

Yes, we have standard radios at 60 GHz (V-Band) and at 70/80 GHz (E-Band), but aren't there times when standard just won't do? When you need a radio for a unique purpose, choose HXI to configure your link.

Radio Brochure

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

REC/HXI Product Lines

DC to 300 GHz
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. If you don't see what you need, just call or email us!

Renaissance Catalog

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