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Move Over X-ray: Millimeter is Wave of the Future for Homeland Security

Millimeter wave stand-off detection systems currently being developed under a contract from the Department of Homeland Security are designed to detect suicide bombers at a distance

There is a growing and critical need for the detection of person-borne improvised explosive devices (PBIEDS). A favored tactic due to its simplicity and low cost, suicide bombing creates maximum fear because the victims are randomly chosen, and in public areas such as schools, churches, hospitals, sports stadiums, bus or train stations, or other populated areas.

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2A3BAF-RoHS Isolator

Renaissance Electronics has designed a new wideband Isolator, Model 2A3BAF-RoHS. This Isolator operates over 950 to 1500 MHz with an 18 dB minimum isolation, 1.3:1 maximum VSWR and 0.4 dB maximum loss.

[Datasheet Link](#)

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



2.5kW Peak Power Circulator, 3G5NAJ

Renaissance has released a new S-band 2.5 kW peak power drop-in circulator operating from 2.9 to 3.3 GHz. With insertion loss of less than 0.6 dB and with return loss and isolation over 19 dB, the circulator is ideal to duplex an antenna with HPA and a receiver. This circulator has been customized to withstand 250W of forward and 150 W of reverse power at the same instance without arcing or corona failures.

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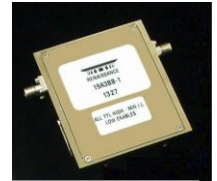


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Programmable Attenuator for Cellular Fading Simulation Application, 19A3BB-1

Renaissance has developed a new solid state programmable attenuator that can be used to perform fading simulations. The device operates from DC - 3 GHz with 5.5 dB insertion loss and can attenuate 90 dB in 0.5 dB steps. The attenuator can handle 20 dBm over -40 to +85 C.



[Datasheet Link](#)

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X-band Iso-Adapter for High Rel Applications, 2A8BAW

Renaissance has developed a new X-band Iso-Adapter that is designed for High Rel applications requiring waveguide to coaxial transition. Operating between 8.2 to 12.4 GHz, the iso-adapter provides 0.5 dB of loss and 18 dB of reverse isolation. The output is WR90 for the waveguide interface with UG135/U flange. Input is a type N-Female connector.



[Datasheet link](#)

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