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## Homeland Security Developing Systems to Detect Concealed Person-Borne Bombs at a Distance

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.

### Renaissance Electronics

The recent tragic events at the Boston Marathon illustrate the growing and critical need for the detection of person-borne improvised explosive devices (PBIEDS). Such systems, in fact, are currently under development under the guidance and supervision of the Department of Homeland Security. These sophisticated next generation radar systems are being designed to detect bombers at long distances, in crowded areas, and even at non-"fixed" locations such as the Boston Marathon.

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## Low PIM Attenuator, 19A3BC-XX

Renaissance Electronics has developed a new low PIM attenuator perfect for ATE applications which covers DC to 3.0 GHz. Available in multiple attenuation values and handling 100W CW, the attenuator exhibits -145dBc of PIM distortion; making it ideal for test applications which require extremely low PIM.



[Datasheet Link](#)

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit [www.rec-usa.com](http://www.rec-usa.com) / [www.hxi.com](http://www.hxi.com).

## Programmable Attenuator for Cellular Fading Simulation Application 19A3BA

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 100 dB in 1 dB steps. The attenuator can handle 20 dBm over -40 to +85 C.

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## 12 x 12 Programmable Attenuator Delay Matrix for Radar Simulation

Renaissance has designed a 12 x 12 Programmable Delay Line (PDL) Matrix that can be used to simulate targets for Phased Array Radar and Receiver optimization. Each of the 12 inputs is connected to dividers, programmable attenuators and a programmable delay line matrix. The amplitude and phase are controlled by custom software with custom UDP protocols.



### [Datasheet link](#)

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