## **Successive Detection Log Video Amps Are Offered** in Die and Module Packaging

Hittite Microwave has launched two successive detection log video amplifiers (SDLVA) that operate over the 0.6 to 20 GHz and 2 to 20 GHz frequency ranges respectively. Available in die format, the HMC913 features power limiter circuitry at its RF input and carries a class 1A ESD rating (250 V HBM). The HMC913 and the HMC-C078, which is available in miniature connectorized module packaging, are suitable for designers with space and power-constrained applications including EW and ELINT receivers, DF radar, ECM, IFM systems, and missile guidance. The HMC913 employs a successive compression topology, which delivers a high logging range of 59 dB and provides a nominal slope of 14 mV/dB. It is capable of processing RF pulses with amplitudes from -54 dBm to +5 dBm with less than 10 ns rise times, and with only 25 ns of recovery time. The HMC913 exhibits frequency flatness of better than ±1.5 dB at -25 dBm input power, while logarithmic linearity is better than ±1.5 dB over the full -55 °C to +85 °C operating temperature range. It consumes 80 mA from a single +3.3 V supply. The HMC-C078 is a compact, hermetic, connectorized, wideband SDLVA module with limited RF output. It operates from 2 to 20 GHz with a high logging range of 50 dB, and exhibits frequency flatness of  $\pm 1$  dB at -25 dBm input power. HMC-C078 provides +7dBm of saturated RF output power with a small-signal gain of 44 dB.

## **Hittite Microwave Corporation**

978-250-3343, <u>www.hittite.com</u> [1]

## Source URL (retrieved on 02/27/2015 - 11:05am):

http://www.ecnmag.com/products/2010/07/successive-detection-log-video-amps-are-offered-die-and-module-packaging

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