Ultra-Fast 59340 Peak Power Sensor for Frequencies up to 40 GHz

Wireless technology is getting increasingly demanding for test and measurement equipment. Highly dynamic signals, often with noise-like signal characteristics, fast switching carriers, and pulsed signals need to be analyzed accurately. Developers and engineers want reliable measurement tools to analyze such intricate waveforms. Boonton proudly announces the extension of the fast 593xx Peak Power Sensor family, the 59340.

This RF Peak Power Sensor is optimized for Boonton's high end Peak Power Meter series 4500B and 4540. It provides dynamic input power ranges from -24 dBm to +20 dBm in Peak mode and -34 dBm to +20 dBm in CW mode. With frequencies of up to 40GHz, its rise time of less than 10 ns and a bandwidth of up to 35MHz, the new 59340 can even handle the most complex signal forms. Due to its high speed, the sensor is ideal for statistical measurements with high dynamic signal content. These measurements are utilized if signals show noise-like characteristics, and therefore do not support conventional trigger methods.

The new 59340 sensor is extraordinarily fast, but may also handle very low frequencies, starting as low as 50 MHz. Frequency range is dependent upon which bandwidth the sensor is set to; it ranges from 0.5 GHz to 40 GHz in high bandwidth mode and from 50 MHz to 40GHz in low bandwidth mode. All 59340 sensors are equipped with a K (m) connector.

With the new 59340 customers can now choose among a wider range of Boonton RF Power Sensors that are optimized for their specific measurement requirements. In combination with Boonton's 4540 and 4500B RF power meters, the new 59340 RF Power sensor is ideal for communications, wireless, aerospace and RADAR applications.

Source URL (retrieved on *03/10/2014 - 6:33am*):
http://www.wirelessdesignmag.com/product-releases/2010/06/ultra-fast-59340-peak-power-sensor-frequencies-40-ghz?qt-digital_editions=0