

HSCH-9161 GaAs Detector Diode Sensitivity Measurements

Product Note #12

HSCH-9161

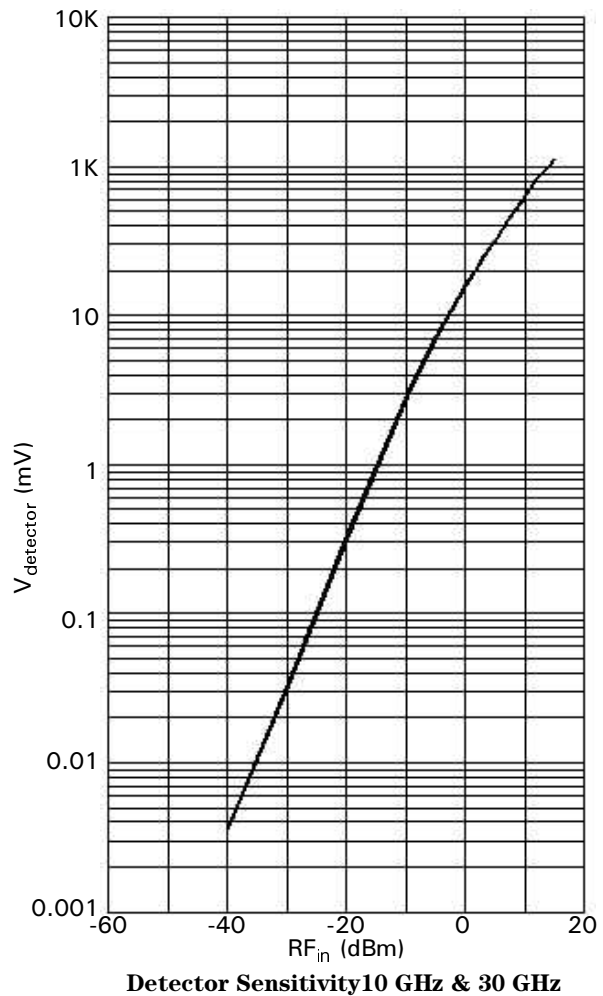
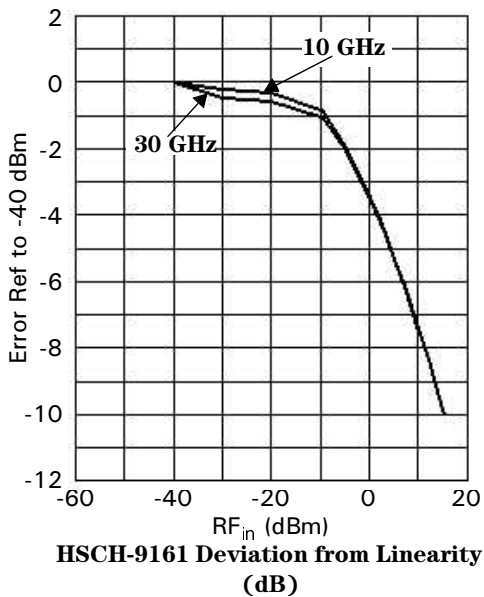
Description

The HSCH-9161 was installed into a 2.4mm, 50 GHz diode detector housing (the same housing used for the HP Coaxial Detector 33330E). Detector voltage measurements were made using the internal 50 Pf bypass capacitor and an external 10KΩ load resistor. A 50Ω resistor near the diode terminates the RF_{in} .

This product note presents sensitivity measurements as $V_{detector}$ millivolts vs. RF_{in} (dBm) at 10 GHz and 30 GHz. From these measurements the

deviation from linearity is calculated and plotted referenced to -40 dBm.

Additional data may be available through MWTC's Application Engineering at 707-577-3120.



Note: This product note provides supplemental information not included in the product data sheet. The purpose of supplemental data is to provide the end user with useful product-specific information to aid in the design process. The information provided does not represent or imply additional product specifications. Every attempt has been made to provide accurate data on typical products.