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Highly Linear InGaAs Photodiode (HLPD®) Lab Buddy to 22 GHz

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Highly Linear InGaAs Photodiode (HLPD®) Lab Buddy to 22 GHz

The New Era of Lab Buddy

The HLPD® Lab Buddy is a stand-alone remotely accessible instrument for O/E applications. It incorporates Discovery Semiconductor's state-of-the-art highly linear photodiode with high power handling capability. Its high phase linearity makes it particularly attractive for precise timing applications such as photonic clock, time and frequency transfer, and photonic ADC. The HLPD® Lab Buddy has a programmable bias voltage source that allows for highly linear operation at high input power and a built-in temperature controller for increased reliability. The bias and temperature can be set either from the front panel or via a remote computer interface. The HLPD® Lab Buddy monitors its bias, temperature, and average photocurrent in real-time.



Fig1: Highly Linear InGaAs Photodiode (HLPD®) Lab Buddy to 22 GHz

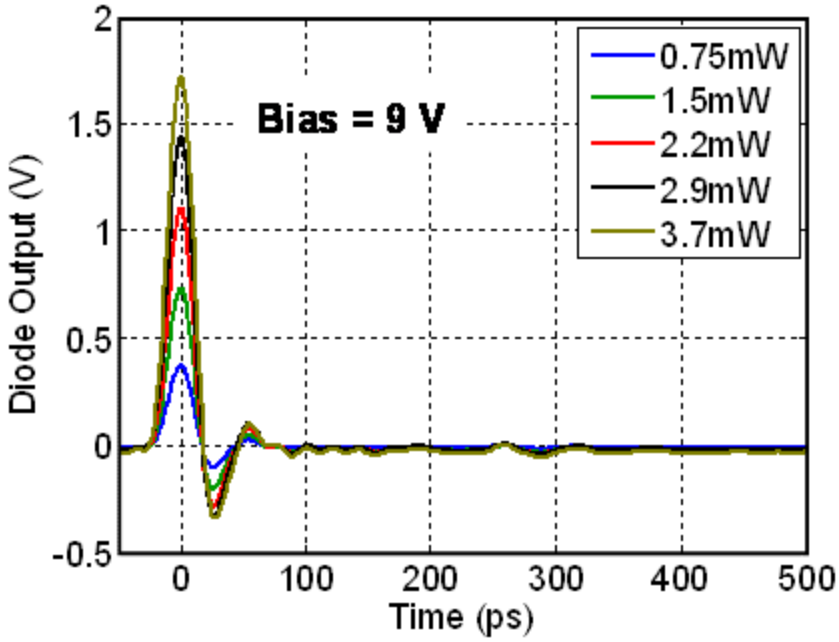


Fig2: Impulse Response of High Optical Power Handling Highly Linear Photodiode (HLPD®):

Salient Features:

- High linearity photodiodes up to 22 GHz
- O/E Bandwidth up to 22 GHz
- RF Output > 1.5 Vp-p, OIP2 > 55 dBm, OIP3 > 45 dBm
- Phase Linearity ~ 5 rad/W
- Programmable Bias: 4 V to 9 V with 0.1 V Resolution
- Programmable Temperature: +10 °C to +35 °C with 0.1 °C Resolution
- Built-in Photocurrent Monitor with 10 µA Resolution
- Remote Computer Interface
- Wavelength Range: 1064 - 1650 nm

Applications:

- Test and Measurement
- RF-over-Fiber
- Antenna Remoting
- Photonic Clocks
- Optoelectronic Microwave Oscillators
- Ultra-Fast Photonic Analog-to-Digital Converters
- RF Arbitrary Waveform Generators

Available Models:

- DSC30S-HLPD®- High Optical Power Handling Highly Linear Photodiode (HLPD®) Lab Buddy to 22 GHz
- DSC40S-HLPD®- High Optical Power Handling Highly Linear Photodiode (HLPD®) Lab Buddy to 16 GHz
- DSC50S-HLPD®- High Optical Power Handling Highly Linear Photodiode (HLPD®) Lab Buddy to 12 GHz

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