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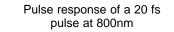
Sales: (973) 579-7227 Fax: (973) 300-3600

APD110 High Sensitivity Detector Unit

Our High Sensitivity Detector Unit features an avalanche photodiode with a bias voltage supply and a RF-amplifier all in one compact module. It has been designed for best performance when detecting small signals in the range from 1 - 800 MHz.

The High-Sensitivity-APD has been designed to detect beat signals between weak lasers. It is used with great success in our optical frequency synthesizer FC8003 to detect the offset beat signal and beat signals with external sources. Note that the output of the module is AC coupled.

Parameter V	/alue	Unit
Supply Voltage +	15 ±0.5	V
Current Consumption1	10	mΑ
Max Incident Power1	0	mW
Operating Temp2	0-26	°C
Spectral Range4	00-1000	nm
Detector Diameter0	.5	mm
Frequency Range1	-800	MHz
Output Impedance5	0	Ω
ConnectorsB	BNC	n/a



time (ns)

0.5

0.4

0.3

0.2

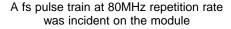
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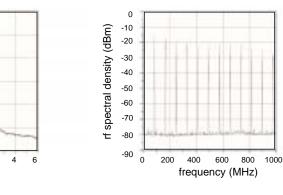
0.0

-0.1

-6 -4 -2 0 2

output voltage (V)





Spectral response of the photo diode with an internal amplification of 50 and 100.

