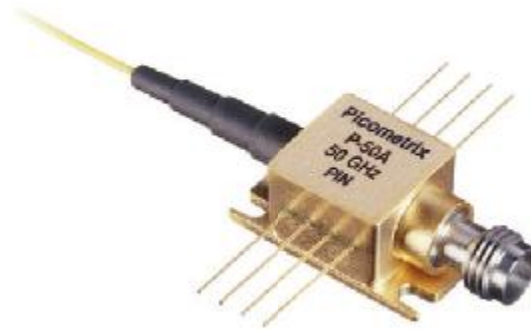


## P-50A



- Ultrafast PIN detector module
- High bandwidth, > 50 GHz
- 0.50 A/W responsivity
- 6 ps risetime
- Front-end for 40 Gb/s receivers and ultrafast T&M instruments

Specifications	Minimum	Typical	Maximum	Units
Wavelength range	1200		1650	nm
Bandwidth (-3dB electrical) <sup>1</sup>	48	> 50		GHz
Low frequency cutoff	DC			kHz
Risetime (10-90%)		6		ps
Overload	+3			dBm
Responsivity @ 1310 nm/1550 nm		0.50		A/W
Optical Return Loss			-30	dB
Polarization Dep. Responsivity		< 0.1	0.2	dB
Output termination		50		Ω

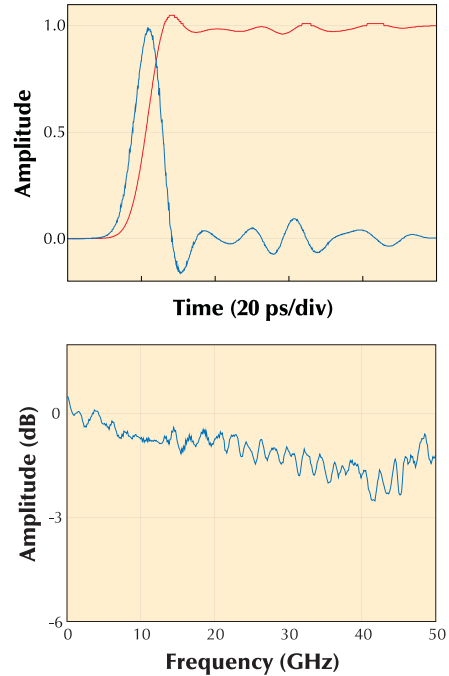
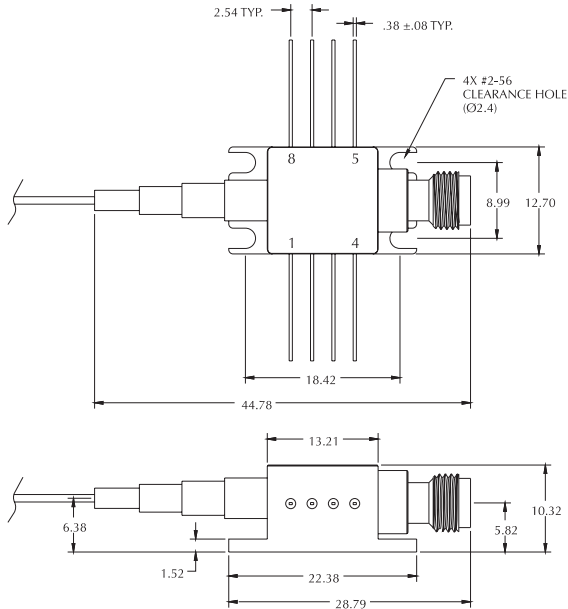
### DC Electrical

Photodiode voltage	+3	+4	+5	V
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### Mechanical

Package type		8-pin module with V connector		
Operating temperature	-5		+75	°C
Storage temperature	-40		+85	°C.

## Product Specifications



Pin	Description	Pin	Description
1	NC	5	GND
2	NC	6	V <sub>PD</sub>
3	NC	7	NC
4	NC	8	NC

## P-50A Ordering Information

Base model	P-50A
Option format	/Package/Output termination/Fiber connector
Package option	8V
Output termination option	Z50
Fiber connector options	FC, SC or LC

## Application Notes

Electrostatic discharge (ESD) will cause permanent damage to the product. Please avoid any ESD to the input pins or output connector. Use standard ESD protective equipment when handling this product.

Temperature and fiber restrictions are as follows:

Lead soldering: 250°C for no more than 10 seconds

Fiber feed-through tube: 120°C

Fiber pull force: 10 N

Fiber bending radius: 1 inch or less

Exceeding these conditions can cause permanent damage to the device.