	• PR-3-M	PR-3-M 2 GHz Photodicole Receiver Modula Der merenan		
DEVICE	3 GHz PhotoReceiver, Module			
	The Optilab PR-3-M is a 3 GHz photodiode me antenna remoting, and other RF transmission PR-3-M utilizes a linear PIN photodiode and le Amplifier), providing optical to RF conversion effective receiver module can provide users w	applications over optical fiber. The ow distortion TIA (Transimpedance beyond 3 GHz. This compact, cost-		
OVERVIEW	port. When the PR-3-M RF over fiber receiver module is linked with the LT series of RF over fiber transmitter modules, the combination provides an excellent solution for wideband RF to fiber conversion applications, go to optilab.com for more details.			
FEATURES	 Remote Monitoring via USB Port Status Monitoring: RS-485 (standard) Highly Linear for Analog Signals Transmission 	High Dynamic RangeIntegrated TIARF Bandwidth up to 3 GHz		
USE IN	 RF Transmission over Fiber RF/IF Signal Distribution	Broadband Delay-lineLIDAR ReceiversPhase Array Antenna		
FUNCTIONAL DIAGRAM				
Optical in PD RF out				

мс

USB



PR-3-M

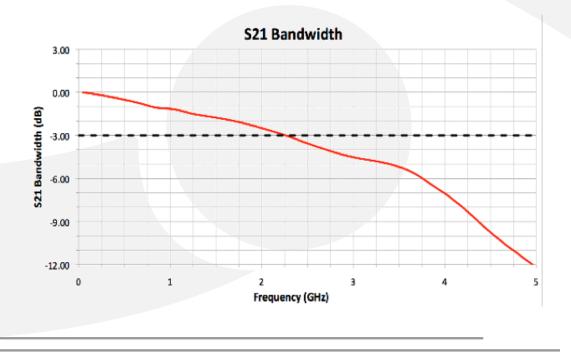
SDE	CIE		IONS
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GENERAL

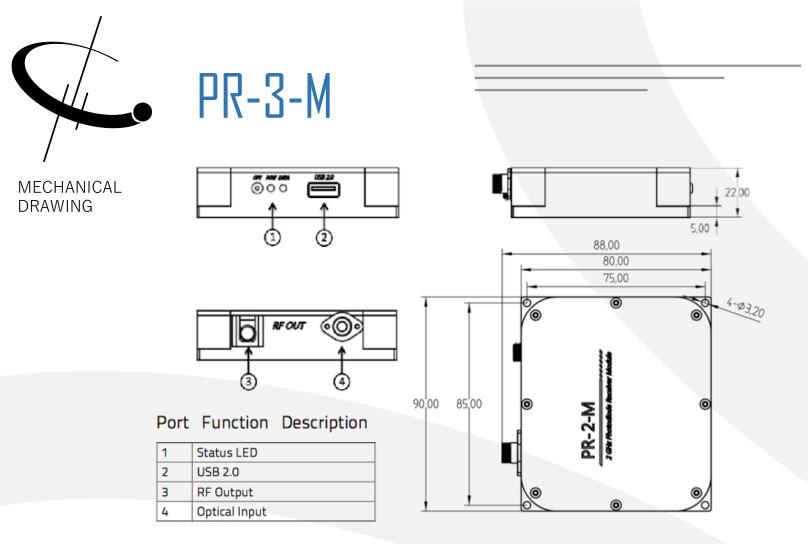
MECHANICAL

Transimpedance gain	600 ohm typ.	
Conversion gain	500 V/W typ.	
Photodiode Wavelength Range	1260 nm to 1600 nm	
Operational Bandwidth	60 KHz to 3.5 GHz	
Optical Input Level	1 mW max.	
Responsivity	0.85 A/W 🖻 1550 nm typ., 0.80 A/W 🖲 1310 nm typ.	
S21 3 dB Bandwidth	2 GHz typ.	
S22 Characteristics	< -10 dB 🖻 2 GHz	
Optical Return Loss	- 30.0 dB typ.	
Output Coupling	DC Coupled	
RF Impedance	50 Ω	
Ripple over Bandwidth	± 1.0 dB max.	
NEP	10 pW/ $\sqrt{H_2}$ max.	

-10 °C to +50 °C
-20 °C to +80 °C
+5 V DC, 500 mA max.
FC/APC, SC/PAC Optional
SMA Connector Female, 50 Ω
LED: Optional Input Power
RS-232 Interface (standard) via USB
90 mm x 80 mm x 22 mm
USB Adaptor & Cable
Precision Mach. Anodized Aluminum







REMOTE LABVIEW INTERFACE

Optilab offers remote interface via Labview software, for parameter adjustment and status monitoring, con- tact Optilab for more details.

