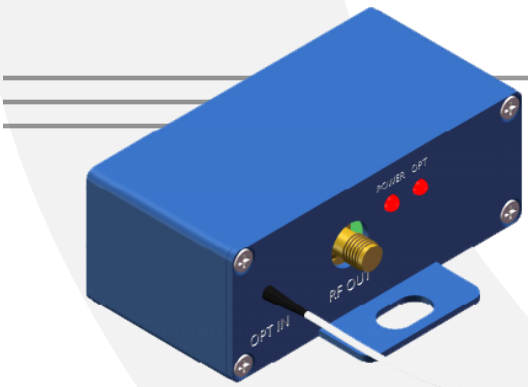
HPR-IG-060



DEVICE

60 MHz High Gain Photoreceiver Module

OVERVIEW

The Optilab HPR-IG-060 is a 60 MHz bandwidth high gain photon receiver module consisting of an PIN photodiode and a TIA. This compact, cost-effective receiver module accepts FC/APC input optical fiber and outputs electrical signal through a SMA female connector. The HPR-IG-060 requires a ±5Volt DC power supply for operation. Contact Optilab for more information, (602)343-1496.

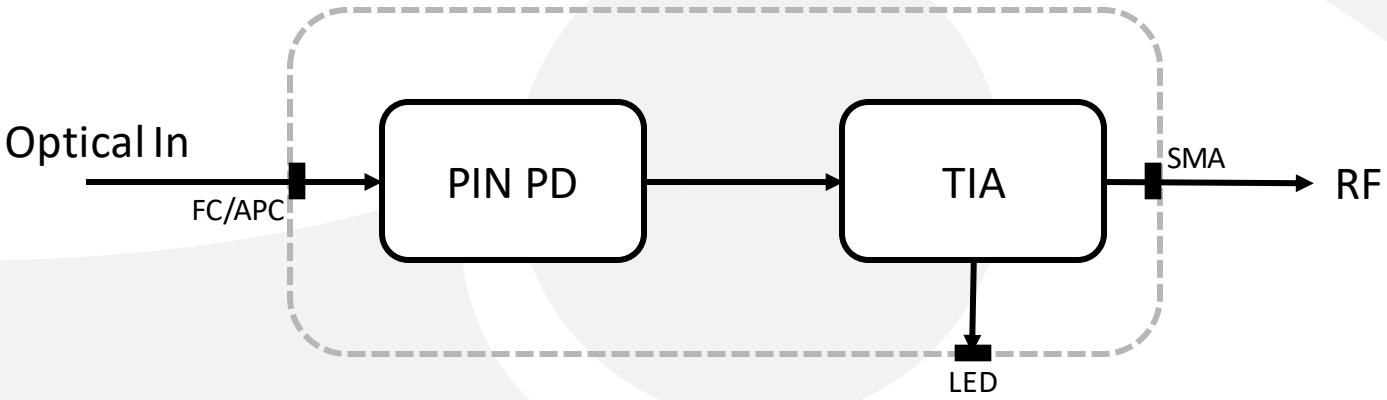
FEATURES

- Conversion gain of 28,000 V/W
- Useful O/E bandwidth over 80MHz
- Single ±5 V power supply
- Optical input power level indicator LED
- DC-coupled electrical output

USE IN

- Weak Optical Signal Detection
- RF Transmission over Fiber
- Broadband delay-line and signal processing
- Phased and interferometric array antenna
- High Speed Optical Sensing Receiver
- High gain O/E converter

FUNCTIONAL DIAGRAM



HPR-IG-060

SPECIFICATIONS

Photodiode Wavelength Range	900 nm to 1600 nm
-3 dB Bandwidth	>60 MHz
Small Signal Conversion Gain	28,000 V/W @ 1550 nm
PD Responsivity	0.85 A/W @ 1300 nm typ., 0.90 A/W @ 1550 nm typ., 0.80 A/W @ 1610 nm typ.
Minimum Optical Input	-16 dBm
S21 3 dB Bandwidth	65 MHz typ.
NEP	30 pW/√Hz
Output Coupling	DC Coupled
Maximum Overload	-11 dBm typ.

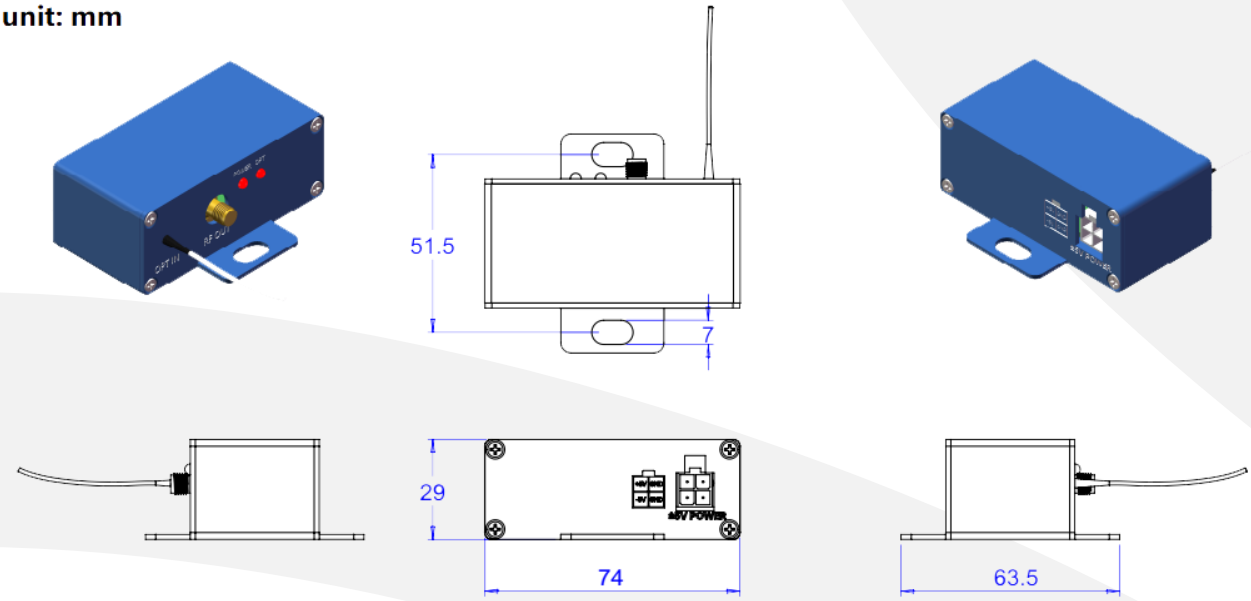
GENERAL

Operating Temperature	-5°C to +75°C
Storage Temperature	-40°C to +85°C
Power Supply Requirements	±5VDC
Optical Connector	FC/APC
RF Output Connector	SMA Connector Female, High Z
Local Alarm LED	Optical Input Power
Dimensions	280mm x 90mm x 340mm
Housing	Anodized Aluminum

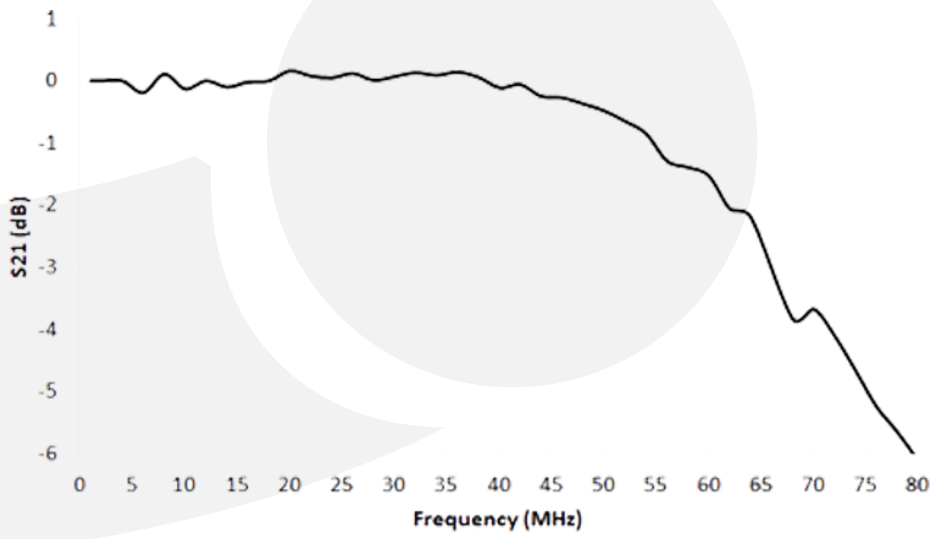
HPR-IG-060

MECHANICAL DRAWING

unit: mm



S21 TEST DATA



HPR-IG-060

COMPATIBLE POWER DRIVER
PS-5-M (±5V power supply for the HPR-IG-060)

PS-5-M