

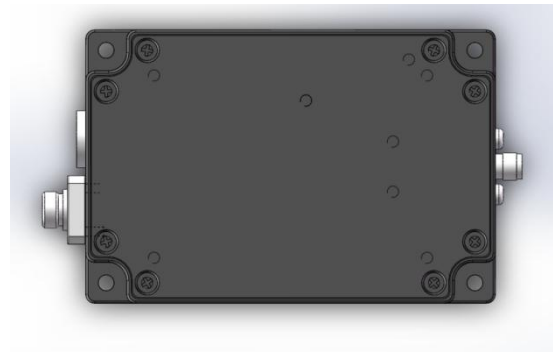
## DMX60 High Speed Photodetector

### 1. Overview

The DMX60 is a single-mode fiber-coupled Indium Gallium Arsenide photodetector designed for applications in the 1100-1650 nm wavelength range. The core component of the detector is a fiber optically coupled, hermetically sealed microwave detector module. For simplicity of use, the module is housed in a ruggedized enclosure. The optical input from a single mode fiber is coupled to the detector via an FC flange, and the signal output is provided via an SMA or 2.92mm RF connector, which can be connected to the measurement instrument using a suitable cable.

### 2. Features

- Suitable for the near infrared wavelength range
- Bandwidth from 6 to 40 GHz
- DC and AC coupled outputs available
- Connects to single mode (SM) fiber



### 3. Applications

- Microwave Optical Link
- High-speed fiber optic communication
- GPS signal transmission

### 4. Specifications

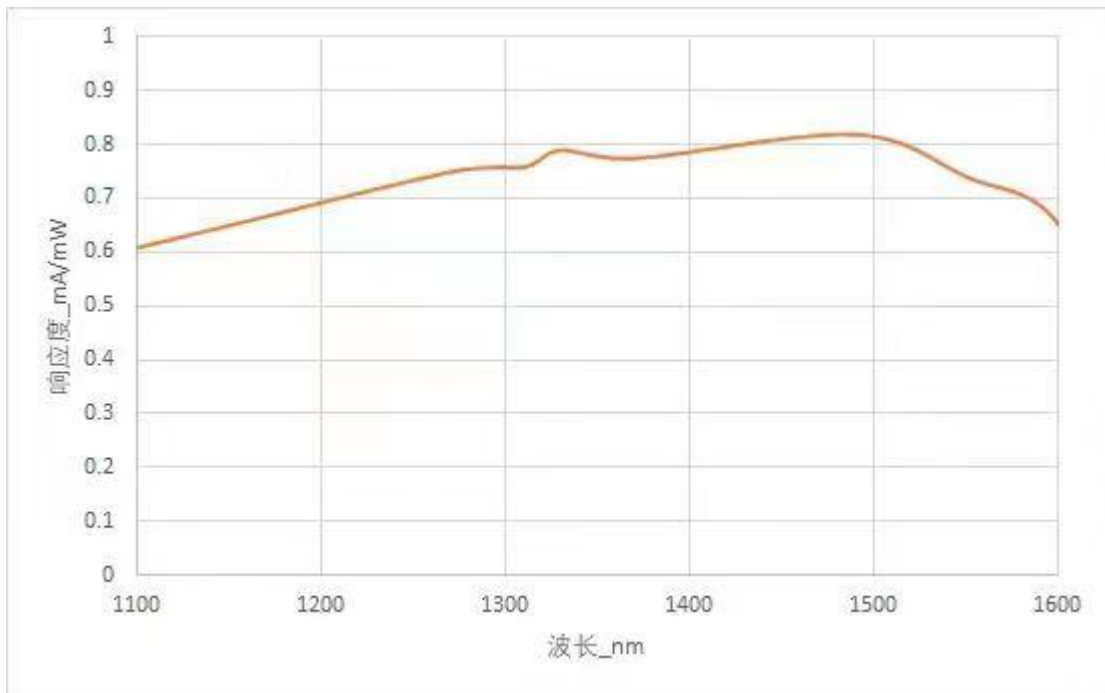
Items	DMX60C-6G	DMX60C-12G	DMX60C-18G	DMX60C-24G	DMX60C-40G
Materials	InGaAs				
Fiber optic connector	FC flange (internal single mode fiber)				
Wavelength	1100-1620nm				
Responsivity	0.85A/W				0.75A/W
Bandwidth <sup>a</sup>	6GHz	12GHz	18GHz	24GHz	40GHz
Gain Flatness	±1dB	±1.2dB	±1.5dB	±1.7dB	±3.5dB
Saturated optical power	10dBm				
Return loss	-12dB	-10dB	-10dB	-5dB	-5dB
Output Impedance	50Ω				
Output	DC/AC				

Coupling method		
Output connector	SMA female	2.92mm K
Operating voltage	9~12VDC	
Operating temperature	-20~65°C	
Storage temperature	-40~85°C	

Remarks:

a For 50Ω load

### 5. Response curve



Note: Response curves are typical values for reference only.

### 6. Mechanical dimensions

