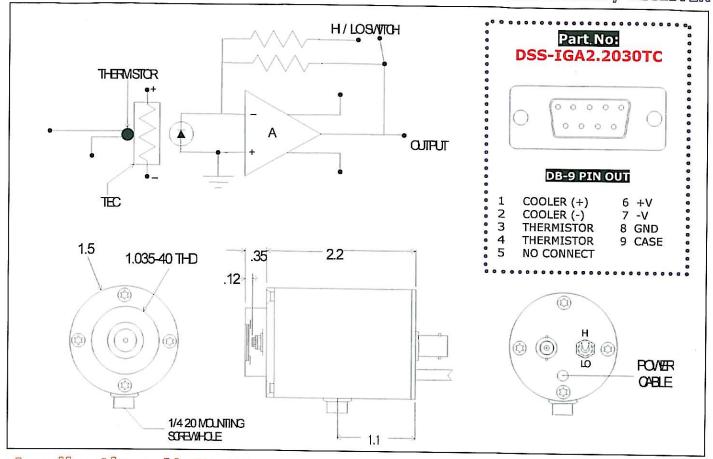
HORIBAJOBIN YVON

DSS - SERIES PHOTODIODE / RECEIVER

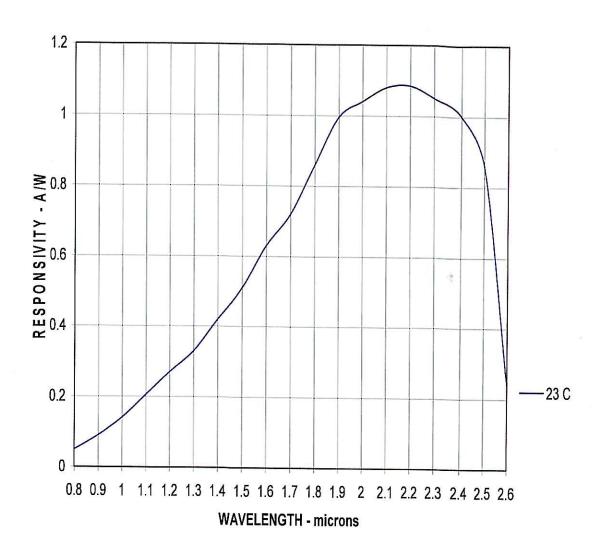


unit This is high a performance photodiode/receiver operated with a thermoelectric cooler for stabilization/cooling with dual gain FET input transimpedence amplifier. The output voltage is proportional to the input signal current: $\mathbf{V}_{out} = \mathbf{I}_{signal} \cdot \mathbf{R}_{f}$. The PD/AMP is a DC coupled dual gain system. Care should be taken in shielding the unit from stray lightduring operation to prevent saturation of the amplifier (and potential failure).

是多数的 1960年	SPECIFICATIONS	(1) [1] (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Detector Type	3 mm ex-InGaAs Photodiode	
Operating Temperature - °C	25 @ I _{tec} = 0.0 A	-30 @ I tec = 0.6 A
Operating Wavelength - μm	1.2 - 2.5	1.2 - 2.5
Responsivity - V/W @ pk	1.2 x 10 ⁶ / 10 ⁵	1.2 x 10 ⁶ / 10 ⁵
Noise - V/Hz ^{1/2} @ 100 Hz	$1.0 \times 10^{-7} / 10^{-6}$	2 x 10 ⁻⁶ / 10 ⁻⁵
NEP - W/Hz ^{1/2} @ 1.95 μm	< 8.0 x 10 ⁻¹²	< 1.5 x 10 ⁻¹²
Bandwidth (-3dB) - Hz	DC – 2k	DC - 2k
Power Requirements	+/- 9 VDC to +/- 15 VDC	
Connections	BNC signal output. Shielded power cable terminated with a DB-9 conne directly couples the unit with the PS/TC -1 Low Noise Power Supply	

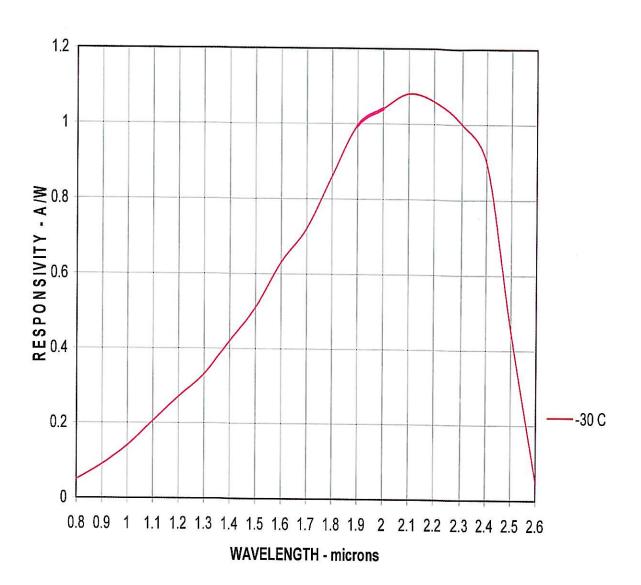
DSS-IGA2.2TC PHOTODIODES

SPECTRAL RESPONSE - IGA2.2 AMBIENT-series



DSS-IGA2.2TC PHOTODIODES

SPECTRAL RESPONSE - IGA2.2 TC-series





DSS - SERIES PHOTODIODE / RECEIVER

OPERATING THE DSS-SERIES PHOTODIODE/RECEIVER

POWER SUPPLY: A bipolar power supply is required, +,- 6VDC to +,-15VDC, 20mA. This means a +V, central/common ground and a -V connection - 3 wires total, to pins 6, 7, & 8 on the D-sub connector. The power supply pins should be bypassed physically close to the amplifier module. Double check wiring prior to turning on power. Improper /reverse wiring will damage the unit.

GAIN SELECT: The unit is supplied with a switch which provides a 10:1 HI/LO gain function. HI Gain is the up position on the switch; LO Gain is the down position. Consult the individual data sheet for specific values.

AMBIENT LIGHT: Because of the high gains involved, the unit must be shielded from ambient background light during operation. Measurement errors and/or saturation can result from improper shielding.

OUTPUT CONNECTION: The signal output is thru a BNC connector (or BNC terminated cable in the case of the 2-color units) located on the back of the module.