

1.4.2.3 Standard Customized Solutions (OEM) Thermal and Photodiode Sensors

100µW to 3W

Features

- Conduction cooled
- Thermal sensors are spectrally flat
- Analog or RS232 output
- Wide dynamic range, switchable ranges
- Selectable wavelengths

3A-UA



These specifications refer to standard OEM sensors, and are to be understood as generic, describing sensor families. Ophir will be happy to help you with a specific solution for your particular application.

Model	3A-UA
Type	RS232 or Analog output
Features	Measures very low power, built in amplifier
Absorber Type	Broadband
Spectral Range µm	0.19 – 20 ^(c)
Aperture mm	Ø9.5
Maximum Power	3W ^(a)
Power Mode	
Minimum Power	100µW
Power Noise Level	<8µW RMS ^(d)
Thermal Drift (over 30 minutes)	<±10µW ^(d)
Maximum Average Power Density W/cm ²	1000
Response Time (0-95%), typ. (sec)	1.8
Calibration Uncertainty	± 1.9%
Power Accuracy ±% at Calibrated Wavelength	3
Linearity with Power ±%	1.5
Amplifier Power Supply (UA, UAS, UAE versions)	+6V to +24V
Energy Mode	
Maximum Energy	2J
Minimum Energy	20µJ
Energy Accuracy ±% at calibrated wavelength	5
Maximum Energy Density J/cm ²	
<100ns	0.3
0.5ms	1
2ms	2
10ms	4
Cooling	Conduction
Connections	6 pin Molex ^(b)
Dimensions	50x50x38mm
Compliance	RoHS, China RoHS
Part number	Consult Ophir Representative
Note: (a) With analog "UA/UAS" version, maximum power is also limited by maximum output voltage where output voltage is at most 2V less than input voltage	
Note: (b) 6 pin Molex connections: RS232 input, Ground, +Voltage, Analog signal out, high/low voltage or switch input when used, RS232 output	
Note: (c) Calibrated at customer selected wavelength or wavelengths	
Note: (d) In a quiet thermal environment with FOV limiting	

