



ADVANCED PHOTONIC SCIENCES

Model APS-M-1535-SAM-1-CW-APC-FC SM-PM-Fiber-Coupled Yb,Er:Glass Laser Module



Featuring:

- Narrow Linewidth
- Low RIN in the 1-100 GHz Frequency Range
- Polarized Output Beam
- Automatic Power Control (APC)

Parameters	
Output Power (mW)	50-100
Operating Mode	CW
Center Wavelength (nm)	1535
Lorentzian Line Width (kHz)	< 1.0
Residual Intensity Noise (dBc/Hz)	< -165 in (1 to 100) GHz range
Polarization Ratio (typ.)	100:1
Fiber Specifications	0.125 NA, 10 μ m Core Diameter, 125 μ m Cladding Diameter
Fiber Length (m)	1
Fiber Connector	Type R, FC/APC, keyed to slow axis
Residual 980 nm Leakage (%)	< 0.5
Single-Transverse and Longitudinal Modes	STM and SLM

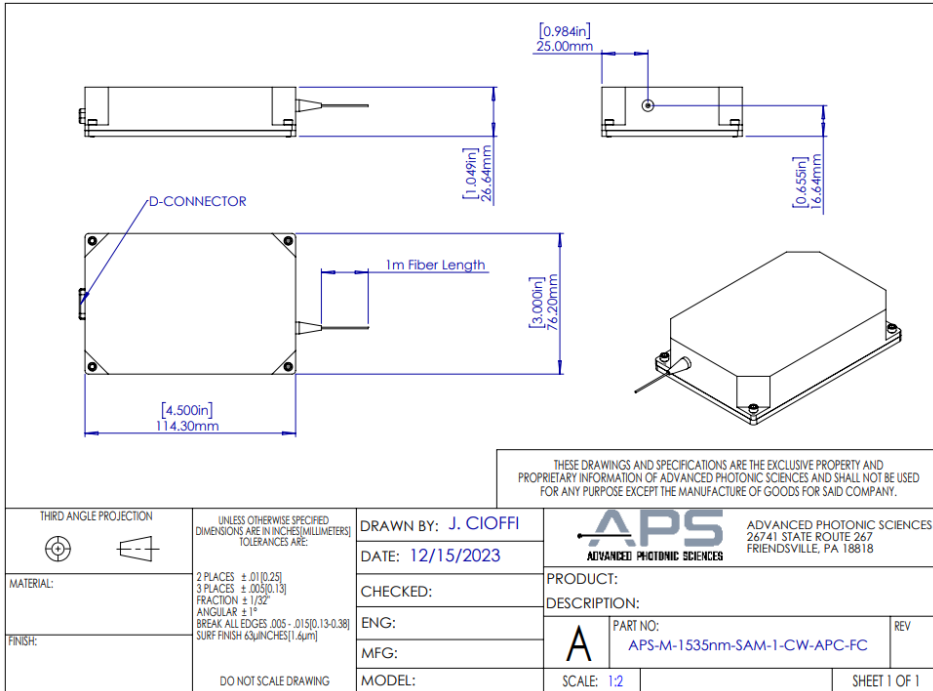
Electrical Input Requirements	
Voltage Supply (Vcc)	4.5 MIN < Vcc > 5.5 MAX
Supply Current (A)	2 A MAX
Electrical Frequency (Hz)	60

Other Specifications	
CDRH Class	IIIB
Storage Temperature ($^{\circ}$ C)	- 40 to +60
Operating Temperature Range ($^{\circ}$ C)	20 to 25

Specifications subject to change without notice. Other notes:

1. All specifications measured at factory-determined laser drive current and temperature settings, chosen within the 20 $^{\circ}$ to 25 $^{\circ}$ C range using a temperature-controlled heat sink.

Mechanical Drawing



Notes

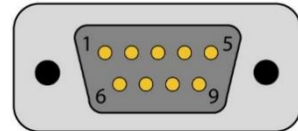
Advanced Photonic Sciences offers a limited one-year warranty.

Model APS-M-1535nm-SAM-1-CW-APC-FC is an electronic device, and, as such, subject to damages due to electro-static discharge, overpowering, and transients.

Thermal management must be included to the OEM design. Failures due to inadequate thermal management will void the warranty.

Please refer to Advanced Photonic Sciences' Warranty Statement / Return Policy for details. For assistance in any integration issues, please contact our experienced Applications Team at sales@apslasers.com

Pinout



Pin	Name
1	GND
2	VBG Temp. Monitor
3	VBG Temp. Set
4	LD Current Monitor
5	LD Current Set
6	LD Temp. Set
7	LD Temp. Monitor
8	Temp. Error
9	Vcc

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