

Applications

- Fiber optic sensing
- DWDM Transmission
- SONET/SDH System

Description

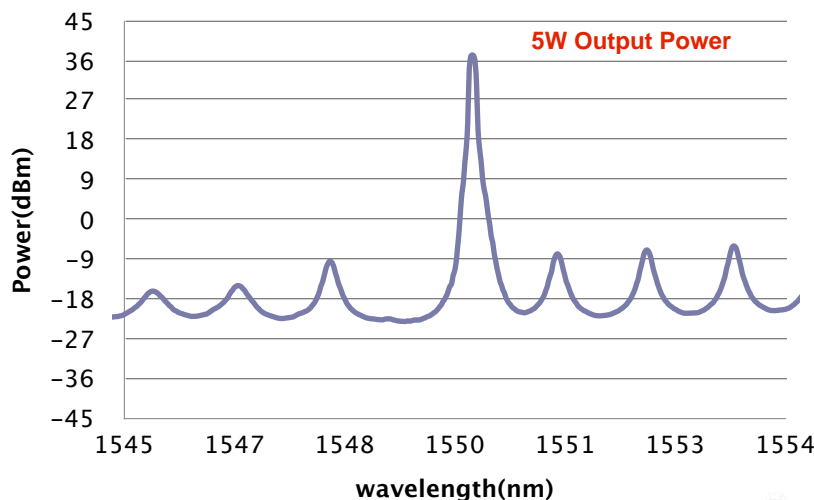
Amonics' stabilized DFB lasers are high output power, narrow linewidth light sources with high side mode suppression ratios. They are available at any ITU wavelength in the S, C, L bands and at any customer-specified wavelengths for optical sensing applications. Amonics' DFB Laser are available in benchtop or OEM module. In the benchtop unit, the output power, alarms and driving current values are shown on the LCD display. Output power can be adjusted by tuning the front panel control knob. Also active emission button is used to enhance operation safety. 1MHz intensity modulation is also available. The OEM module version is an ideal building block for OEM system integrators, especially in fiber optic sensing applications. It requires only a single +5V power supply with low power consumption.



Key Features

- Wide wavelength coverage
- High output power
- Good wavelength stability
- Compact size
- Good performance cost ratio
- Two year warranty

ADFB-1550-5000



DFB Laser Specifications

	ADFB-xxxx-10	ADFB-xxxx-20	ADFB-xxxx-40
Output Power	> 10mW	> 20mW	> 40mW
Wavelength	Customer specified		
3dB Linewidth	Typ. 2 to 5MHz, Max 10MHz		
Output Stability	< + / -0.02dB (over 8 hrs), < + / -0.005dB (over 5 mins)		
Output Isolation	> 25dB		
Side Mode Suppression Ratio	> 40dB		

General Environmental Parameters

Parameter	Unit	Benchtop	Module
Operation Temperature Range	°C	0 to +40	0 to +60
Storage Temperature Range	°C	-10 to +70	0 to +70
Power Supply	V	90 – 240VAC, 47 – 63Hz	5.0VDC
Dimensions	mm	260(W) x 330(L) x 120(H)	100(W) x 120(L) x 18(H)
Electrical Connector	-	NA	14-Pin MIL Socket
Protection	-	DFB laser over heat warning	DFB laser over current warning
LCD Display	-	DFB Output Power DFB Laser Current	NA
Control	-	Keylock switch, output power	NA
Computer Interface	-	RS232 / Ethernet	NA
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC	
Optical Fiber	-	SMF-28 or polarization maintaining single mode fiber	

Option:

- Wavelength tuning



Ordering Information

Product Code	ADFB-xxxx-aa-y-zz	xxxx: Wavelength in nm aa: Output Power in mW y: M for module, B for Benchtop zz: FA for FC/APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC
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Amonics undertakes a continuous and intensive product development to ensure its products perform to highest technical standards. As a result, the specifications in this document are subject to change without notice.

Amonics Limited, 14/F, Lee King Industrial Building, 12 Ng Fong Street, San Po Kong, Kowloon, Hong Kong
Beijing Amonics Co. Ltd. Room 902, Unit 1, NO.99 Chaoyang North Road, Beijing China 100025

contact@amonics.com www.amonics.com HK Tel: +852 2428 9723 HK Fax: +852 2428 9704 Beijing Tel: +86 10 84783386 Beijing Fax: +86 10 84783396