

# PRODUCT INFORMATION SHEET

## 1310nm/1550nm High stability DFB optical source

### Features:

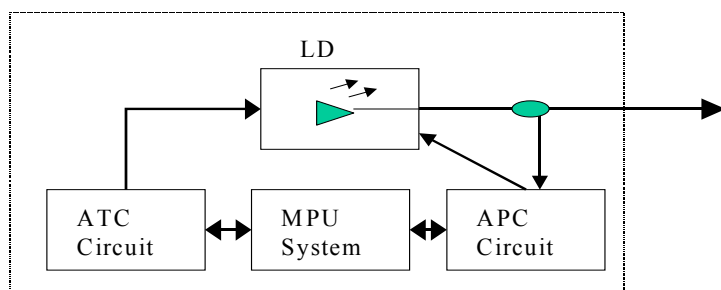
- Micro-process unit control
- Intelligent for operation
- Easy control by other equipments
- Ultra-high stability and reliability
- LCD display status
- RS-485 and RS-232 network interface
- High precise APC and ATC circuit
- 1~3 Wavelength and 1~3 outputs

### Applications:

- Optical fiber fuser system
- WDM test
- Lab testing
- Insertion loss and return loss measurement
- Component characterization
- Stability and linearity measurement
- Instrument calibration

### Description

The laser diode optical source is designed as a lab and manufacture testing equipment. The DFB laser is employed in it as the key component to ensure the high spectrum performance. A proprietary ATC and APC circuit insures the stability output power. By adjusting ATC and APC Operation and remote control is very easy by Micro-process unit.



### Characteristics

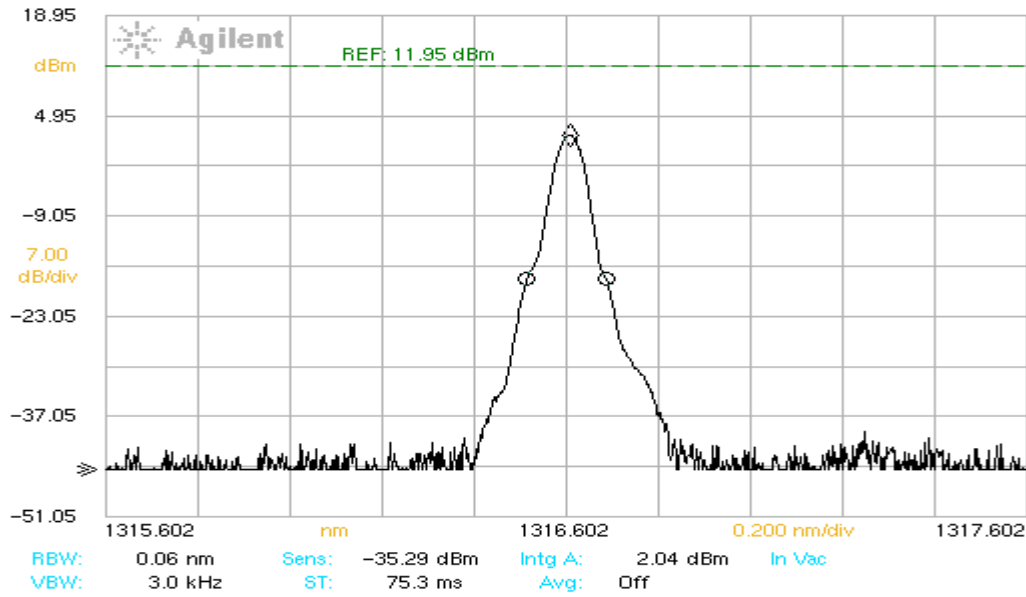
Parameter	Symbol	Min	Typ	Max	Units
Optical output power	Po	-----	-----	10	mW
Wavelength	$\lambda$	1290	1310	1330	nm
		1530	1550	1560	nm
-3dB Spectral width	$\Delta \lambda$	-----	-----	0.1	nm
-20dB Spectral width	$\Delta \lambda$	-----	-----	0.5	nm
Side mode suppression ratio	SMSR	35	-----	-----	dB
Output power stability (in 15 minutes)	$\Delta po_{15m}$	-----	$\pm 0.005$	$\pm 0.01$	dB
Output power stability (in 4 hours)	$\Delta po_{4h}$	-----	$\pm 0.03$	$\pm 0.05$	dB
Internal modulation frequency	f <sub>i</sub>	0.2	-----	500	KHz
External modulation frequency	f <sub>e</sub>	0.5	-----	10	MHz
TEC Stability	$\Delta Tl$	-----	$\pm 0.1$	$\pm 0.2$	°C
Operating Voltage	V	85	-----	260	VAC
Power consumption	Pc	-----	-----	15	W
Operating temperature	T <sub>w</sub>	0	-----	40	°C
Storage temperature	T <sub>s</sub>	-40	-----	80	°C

Other Wavelength can be provided    Single-mode fiber pigtail with connector    wavelength: 0.96~1.68 $\mu$ m  
Maximum power: <500mW

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## Example spectrum

Mkr 1(A)	Mkr 1L	Mkr 1R	BW	CWL
1316.610 nm	1316.518 nm	1316.688 nm	0.170 nm	1316.603 nm
2.260 dBm	-17.740 dBm	-17.740 dBm	-20.000 dB	



## Package

