



Date: 25.02.2008

## Fiber-coupled LED module LE-1BR, Unit WLE1BR071

(Customized unit with power control and remote “on/off” options)

### Test data

Part Number:	LE1-BR
Unit Number:	WLE1BR071
Package type	OEM
Temperature stabilization	active
Fiber outputs	Multi-mode POF primary- coated/3mm jacketed 0.98 mm core diameter, ~1 m long
Output connectors	FC/PC
Number of output channels	2
Number of remote “on/off” inputs	2
Power control knobs	10 turn regulation
Mean wavelength, Ch.1 (max power) nm	~ 445
Spectral FWHM, Ch 1 (max power), nm	~ 20 nm
Mean wavelength, Ch 2 (max power) nm	~627
Spectral FWHM, Ch 2 (max power), nm	~ 19 nm
Cold start central wavelength shift, nm	<0.5
Long-term operating wavelength drift, nm	±1.5
Optical power Ch1 (min/max), mW *	~ 0.9/13.2
Optical power Ch2 (min/max), mW *	~1.5/13.7
Output power instability, dB	± 0.1
Channels crosstalk, dB**	<0.02
Remote control voltage (RCA-connector) , V***	+ (4 to 5)
Maximum pulling force for fiber pigtails, kg	1
Module dimensions, cm	25x17x6
Weight, kg	1.3
Power , V*A	110 V AC, 0.5A
Ambient temperature, °C	21

- \* Output power has been measured at the end of FC-connectorized fiber pigtails.
- \*\* Impedance of remote control input is ~ 300 Ohm (Min pulse width: ~0.25 ms; max rep. rate: ~1 kHz). \*\* Please refer to the module manual notes for details about device “On/Off” remote control. Each remote input drives only corresponding channel.
- \*\*\* Maximum output power variation, when second channel switched “On/Off”.

**WARNING: DEVICE IS PRODUCING SUBSTANTIAL OUTPUT POWER. Do not look into fiber (directly or under microscope) outputs when device is in operation.**

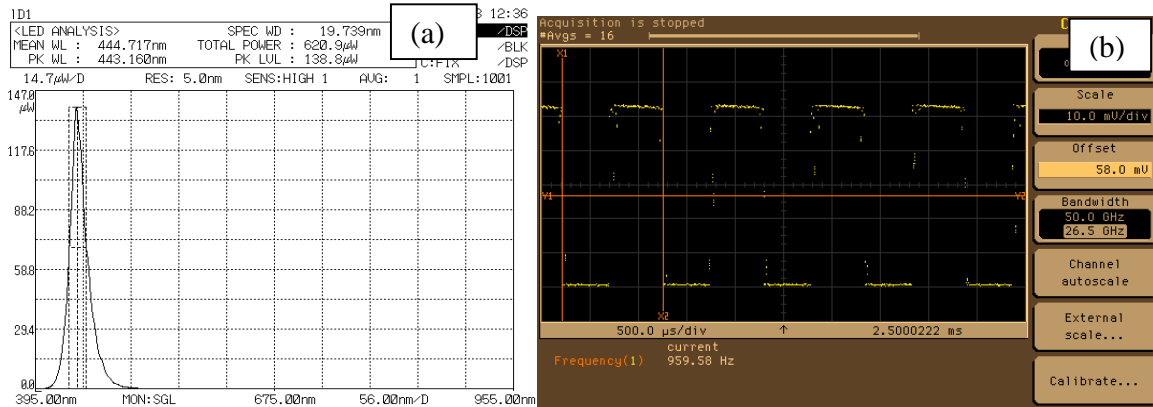
**WARNING: USE ONLY FC/PC CONNECTORIZED OPTICAL PATCH-CORD FOR EXTENSION OF THE MODULE FIBER OUTPUTS. DO NOT PULL OR TWIST OPTICAL FIBER PIGTAILS!**

**Please clean FC/PC connectorized patch-cord ends before making connections (when applicable). If coiling, keep fiber coil radius larger than 6 cm.**

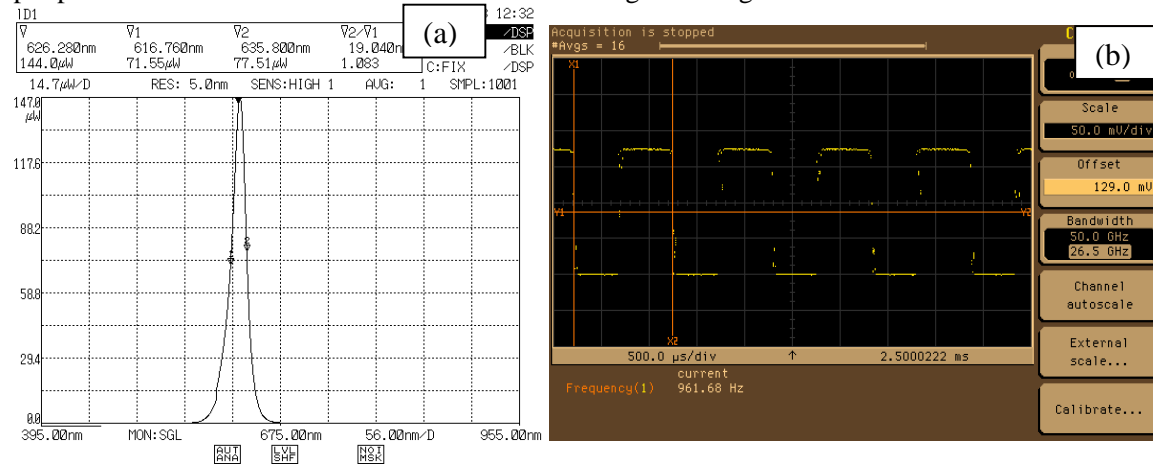
Keep LED output connector clean and covered with dust cap to avoid optical damage.

**STATICS SENSITIVE DEVICE!**

## Testing report, WT&T reference number: 3Q\_\_-0402



(a) Uncalibrated spectra (linear scale) and remote controlled "on/off" waveform (remote control pulses repetition rate is  $\sim 0.97$  kHz), measured at the end of FC/PC pigtail of channel 1. Channel 1 output power is set to maximum level. Remote control signal voltage is  $\sim 4\text{V}$ .



(a) Uncalibrated spectra (linear scale) and remote controlled "on/off" waveform (remote control pulses repetition rate is  $\sim 0.97$  kHz), measured at the end of FC/PC pigtail of channel 2. Channel 2 output power is set to maximum level. Remote control signal voltage is  $\sim 4\text{V}$ .

Module has been tested using following equipment:

OSA:	AQ-6315A (ANDO)
Wavelength meter:	TQ8325c (Advantest)
Optical power meter:	ML910B (Anritsu)
Temperature AU	Multiscan 1200 (Omega)
Functions generator	LeCroy 9100 (LeCroy)
Sampling scope	HP54750A (Agilent)
Optical splitter	ODB-1 (WT&T)
Photo-receiver:	TIA-500 (TTI)/DET210 (ThorLabs)
T&M/Quality control:	Operator 2

Note: module output POWER is sensitive to the fiber pigtail handling.  
Device has been burn-in tested for  $\sim 72$  hrs before shipping.

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