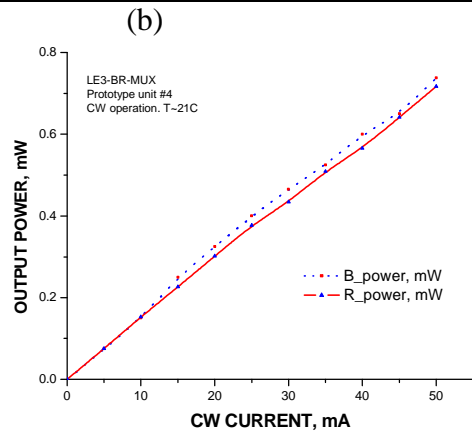
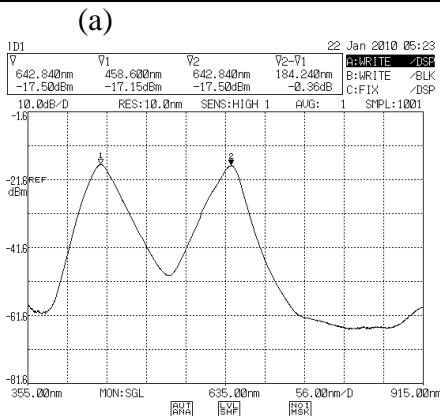
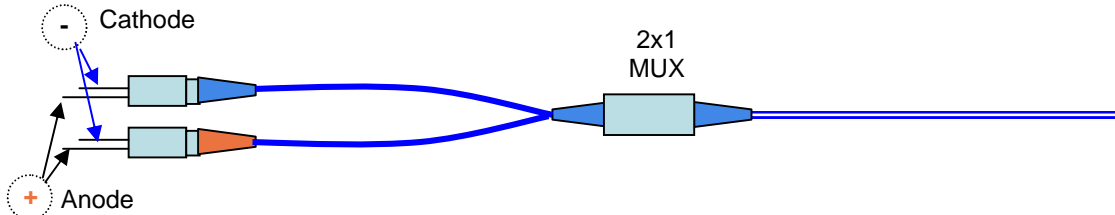


**Fiber-coupled multiplexed coaxial LED
(model LE3-BR-MUX, prototype unit)**

Part Number:	LE3-BR-MUX
Unit Number:	PROTOTYPE 04
Package type	Coaxial,
Temperature stabilization	N/A
Output fiber pigtail:	Multi-mode POF primary- coated 0.9/1.0 mm, NA~0.45
Multiplexer	2x1 mm POF980/1000
Adapter/Connector	Flat polished fiber end
Length of pigtail, m	~0.6
SOURCE "B"	
Operating cw current, mA	~35
Operating voltage (cw), V	~3.3
Operating cw power, mW	~0.5
Mean wavelength, nm	~459
Spectral width (FWHM), nm	~21.5
SOURCE "R"	
Operating cw current, mA	~35
Operating voltage (cw), V	~2.3
Operating cw power, mW	~0.5
Mean wavelength, nm	~642.8
Spectral width (FWHM), nm	~22.6
FOR BOTH SOURCES ("B" & "R")	
3 dB modulation bandwidth, MHz	~35
Long-term operating wavelength drift, nm	±1.5
Ambient temperature, °C	25
Maximum cw current, mA	55
Maximum pulsed current, mA	65
Maximum pulling load to the fiber pigtail, kg	<0.3

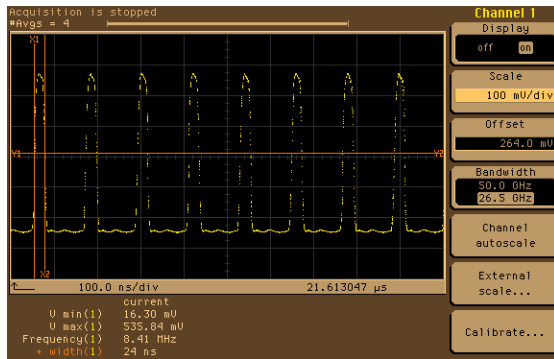


(a) Uncalibrated LED spectra (cw), measured at the end of the fiber pigtail at operating current of ~ 35 mA.
 (b) Light-Current characteristic of "B" and "R" units, operating in CW mode. T~ 21C. Output power has been measured at the end of multiplexed POF980 fiber pigtail.



WARNING: SOFT UV SOURCE! USE OF EYEPROTECTION IS REQUIRED!
STATICS SENSITIVE DEVICE! If coiling, keep fiber coil radius larger than 10 cm. Keep LED output end/connector clean and covered with dust cap/protection tube to avoid optical damage. Do not pull or twist optical fiber pigtailed!

Testing report: Multiplexed LE3



Typical optical waveform, measured using Si p-i-n detector and sampling scope for directly-modulated Model LE-3x units, mounted into impedance-matching circuit. Pulsed current~ 60 mA, CW current=0 mA. Note: module output POWER is sensitive to the fiber pigtail handling.

Devices have been burn-in tested for > 24 hrs before shipping.

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)
LED driver	LE-2C3 (WT&T)
Optical splitter	ODB-1 (WT&T)
Sampling scope:	54750A (Agilent)
Photoreceiver:	TIA-500 (TTI), Hi Gain
Pulse generator:	8011A (Agilent)

T&M/Quality control:

Operator 4

