LED DATASHEET

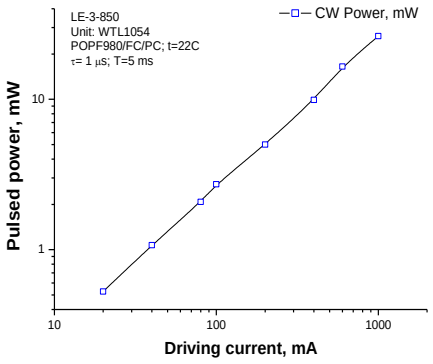
Date: xx.xx.20xx

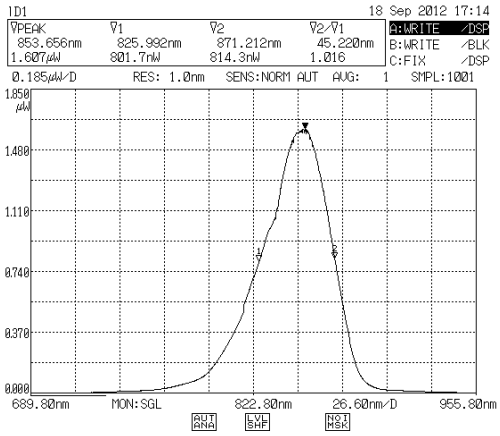
Fiber-coupled LED, Model: QLE-3-850

Test data

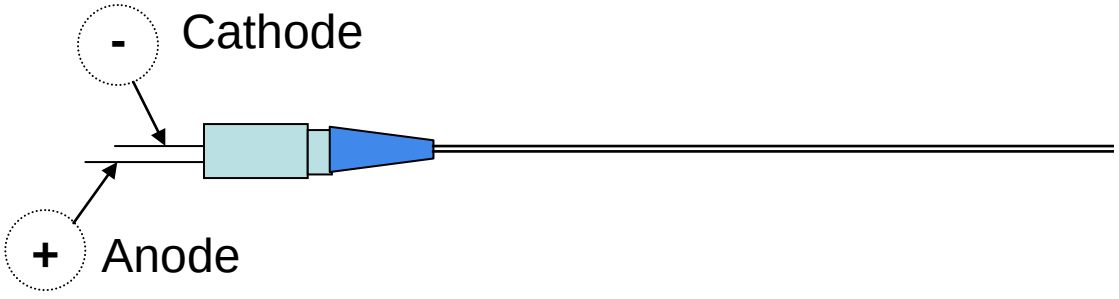
Part Number:	QLE-3-850
Unit Number:	Sample
Package type	Coaxial, PCB
Temperature stabilization	passive
Fiber pigtail:	Multi-mode POF980; 1.8 mm jacket, FC/PC
Fiber termination	Flat polished end
Length of pigtail, cm	~30
3 dB modulation bandwidth, MHz	~45
Operating CW current, mA	80
Maximum cw current, mA	120
Maximum pulsed current, mA*	1000
Mean wavelength, nm	~851 nm
Spectral width (FWHM), nm	~40 nm
Long-term operating wavelength drift, nm	±1.5
Ambient temperature, ^{o}C	24
cw optical power (@80 mA; ~1.43V) mW	~1.9
Pulsed power (@1000 mA), mW*	~26
Maximum pulling load to the fiber pigtail, kg	<0.7

* No CW current allowed, when operating at maximum pulsed current. . Pulse length ~ 1 us; pulse repetition frequency ~0.2 kHz





LED pulsed output power and (uncalibrated power; cw @100 mA) spectra measured at the end of the fiber pigtail.



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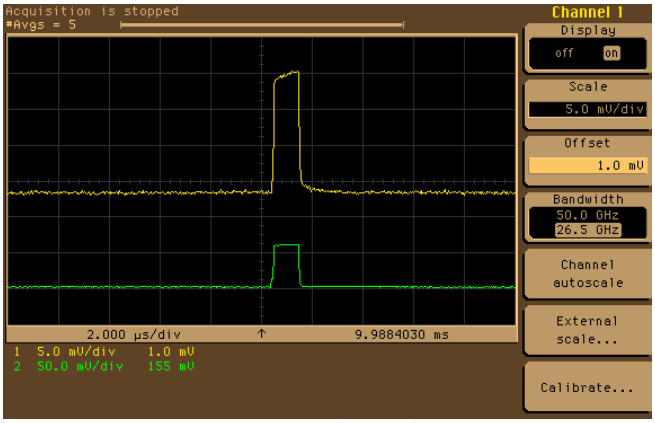
WARNING: USE ONLY FC/PC CONNECTORIZED POF OPTICAL PATCH-CORD to extend the length of the fiber pigtail (when applicable). If coiling, keep fiber coil radius larger then 10 cm.
STATICS SENSITIVE DEVICE! Keep LED output connector clean and covered with dust cap to avoid optical damage. Do not pull or twist optical fiber pigtail!



Typical optical and electrical waveforms of directly-modulatedQLE-3-850, measured using Si p-i-n detector and sampling scope. QLE-3-850 has been driven using bias-T circuit, with I_{dc}=0 mA, I_{rf}~ 120 mA

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)
Photo-receiver:	TIA-500 (TTI)
Pulse generator:	8011A (Agilent)
T&M/Quality control:	Operator 4

Note: module output POWER is sensitive to the fiber pigtail handling.
Device has been burn-in tested for > 24 hrs before shipping.

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