

LS Series LED Sources

The LS Series LED Light Sources, are low cost, high value fiber optic light sources offering premium performance in a rugged compact package. Product offering includes a 850nm LED source (LS850), a 1300nm LED source (LS1300), and a Dual Port LED source (LS8513). Standard feature of all models are Power On indicator, extended battery life, low battery detection, and temperature stabilized power control circuitry. These sources utilize high quality SLED emitters, ensuring a high degree of core fill in standard multimode optical communication fiber (50um, 62.5um, 100um, 200um) allowing for meaningful and consistent network attenuation measurements. Typical output power is -17dBm or greater. When used with the M100 Power Meters, greater than 45dB of measurement range is available. Typical application include datacomm network installation and maintenance testing of multimode optical fiber, passive



optical component testing, patchcord verification, or other applications that require the use of a fiber coupled SLED infrared source.

SPECIFICATIONS:

Model LS850	TA = 23° C ± 5° C
Emitter Type	GaAlAs SLED
Central Wavelength	850nm
Spectral Bandwidth	50nm
Fiber Coupled Power (typ.)	-20 dBm (50um core)
" " "	-17 dBm (62.5um core)
" " "	-13 dBm (100um core)
Po Temperature Coefficient (typ.)	-.01 dB/deg C
Connector Style(s)	ST (standard), SMA

Model LS1300	InGaAsP
Emitter Type	
Central Wavelength	1300nm
Spectral Bandwidth	170nm
Fiber Coupled Power (typ.)	-20 dBm (50um core)
" " "	-17 dBm (62.5um core)
" " "	-13 dBm (100um core)
Po Temperature Coefficient (typ.)	-.025 dB/deg C
Connector Style(s)	ST (standard), FC

Model LS8513, Dual LED Sources

Combine Specifications of the LS850 and LS1300 in a dual port configuration.

Environmental Characteristics (all models):

Temperature Range:	
Operating	-10° C to +50° C
Storage	-55° C to +65° C
Humidity (non-condensing)	5 - 95% relative humidity

Mechanical Specifications (all models):

Size	4.5" x 2.38" x 1.0"
Weight	1/4 lb

Power Requirements (all models):

Battery	9 volt alkaline* (standard)
Battery life (typical)	20 hours (alkaline)

* Other battery chemistries such as Lithium, nickel cadmium, or carbon zinc having a terminal voltage of 8.0 to 9.5v and the same form, can be used.