



Pulsed Laser Diode Systems ML-Series

The ML Series of pulsed laser diode systems are complete systems requiring only an unregulated DC input voltage and a TTL timing trigger to operate. The standard unit provides 15 nS pulse width with fast rise and fall times. The case material is black anodized aluminium. These systems include the pulse drive electronics, focusing lens, and the laser diode. The laser wavelength is typically 905 nm, which is close to the peak sensitivity of most silicon detectors. Other wavelengths are available on special order. A range of output powers are available utilizing either stacked or single junction lasers.

Model Specifications	ML20A15	ML40A15	ML100A15
Dimensions (mm)	86.44 x 53.85 x 14.88		
Weigth (gr)	100		142
Operating temperature (°C)	-20 - +50		
Operating Voltage Range (VDC)	9 - 14.5		
Input Voltage (derated to 5KHz PRF, VDC)	6 - 14.5		
Wavelength (nm)	905 ± 10 (other on request)		
Output power peak (W)	20	40	100
Emitter size (μ x stacks)	75 x 2	150 x 1	250 x 3
Pulse repetition frequency (max. KHz)	10		5
Pulse width (ns)	15		
Propagation delay (ns)	< 8		
Jitter (ns)	< 0.1		
Typical input current (12 VDC, max. PRF, mA)	90	75	
Typical input current (quiescent, mA)	28		56
Connectors (curr. monitor out, trigger in)	SMC		
Lens Compatibility	limited		
Beam angle static alignment (mrad)	± 0.5		
Focus adjustable, preset at (m)	3.05		
Case Isolated	Yes		
Options			
Line Generating Capable	Yes		

