
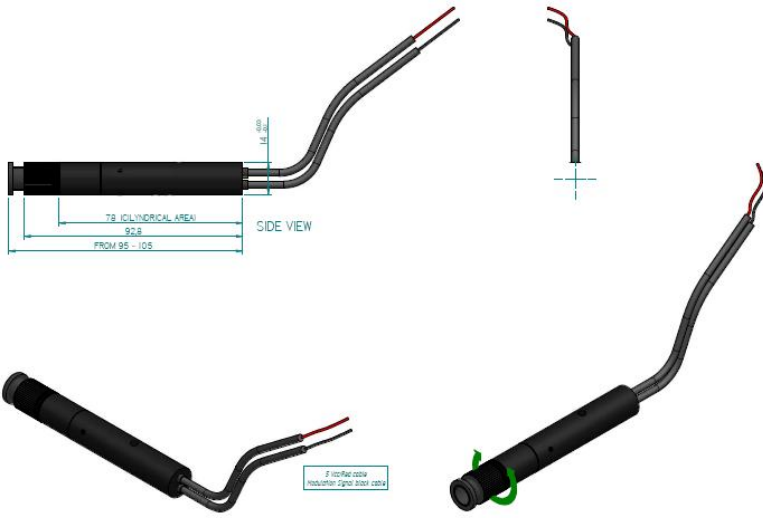


<p>Division</p>	<p>LPDL Low Power Diode Lasers</p>
<p>Product</p>	<p>MC7803M-7A15</p>
<p>Description</p>	<p>Modulatable & focusable laser diode module at 780nm <1mW</p>
<p>Main features</p>	<p>Compact design Low bore-sight CW and modulatable High quality lens, and excellent beam performance Keeps bore sight while focusing. Polarization marks.</p>
<p>Applications</p>	<p>Automatics & robotics Guidance Bio-medics Lighting Imaging</p>
<p>Picture</p>	
<p>Outline</p>	

MC7803M-7A15 | GENERAL SPECIFICATIONS

	Minimum	Operation	Max. Rating
Wavelength [nm]	768	780	792
Operating power ⁽¹⁾ [mW]	0,80	0,93	0,99
Power stability ⁽²⁾ [RMS]			0,5
Operating current [mA]		21	40
Operating voltage [V _{dc}]	4,5	5,0	5,1
TTL signals [V _{dc}]	0		5
Linear modulation range [V _{dc}]	0,25		2,00
Input impedance [Ω]	555	560	565
Pulse width [μs]	1,7		
Clear aperture [mm]	6,3	6,5	6,7
Divergence [mrd]		0,18	0,3
Spot size (@30m) [mm]	8	10	12
Bore sight [mrd]			10
Polarization direction vs. marks [°]	40	45	50
Operating temperature [°C]	non-condensing	25	50
Storage temperature [°C]	-10		85
Lifetime [hours]	10.000		
Cable length [mm]	200	230	250
Connector	2mm long tin cover at cables' tips		
Compliance	RoHs		
Reverse voltage protection circuit	Built in		
Laser product class (EN-60825)	3R		

Conditions @ 25°C while not specified. Specifications could change depending on LD used.

(1) Power at high modulation Level

(2) From a stable input signal