



Product Division	LDBA Laser Diode Bar Assemblies
Product	LBS-64P01-19CW-FC
Description	Fibre coupled laser bar. 640nm, 7,6W at SMA port.
Main Features	<p>Solder-free diode bar mounting technology, exclusive from MONOCROM S.L.</p> <p>Long lifetime, thanks to the lack of mechanical stress due to soldering.</p> <p>High coupling efficiency because there isn't smile effect.</p> <p>High reliability in pulsed conditions since the clamped bars don't suffer fatigue effect during thermal cycles.</p>
Applications	Photodynamic Therapy Skin Treatments Laser projectors Illumination
Picture(s)	
Outline	

LBS-64P01-19CW-FC | TENTATIVE SPECIFICATIONS

	Minimum	Operation	Max. Rating
Wavelength [nm]	635	640	645
Wavelength vs. Temperature [nm/K]		0,2	
Peak power, P _{op} , maximum [W]		7,6	
Operating current, P _{op} =5W, typ. [A]		11,5	
Voltage before cables, P _{op} =5W,typ[A]		2,2	
Threshold current, typ. [A]		3,9	
Pulse length, t _p		From pulsed to CW	
Duty cycle, DC [%]		From single-pulse to 100	
Operation Temperature [°C]*			25
Storage temperature [°C]*			30
Number of bars	1		
Fibre port	SMA-905		
Cooling	TEC		
Weight [gr] **	500		
IP classification	IP64 Laser Head housing		
Laser class product (EN-60825)	4		
Expected lifetime	10.000 hours		

Parametrical and dimensional specifications are subject to changes

* Minimum temp. depending on outdoor humidity to avoid condensation

** Laser Head Module without LDR module and cables

LBS-64P01-19CW-FC | FIBER PATCHCORDS (-FC)

	Minimum	Operation	Max. Rating
Reference	400SMA	600SMA	800SMA
Type	Multimode	Multimode	Multimode
Connector	SMA	SMA	SMA
Core diameter [µm]	400	600	800
NA	0,39	0,22	0,22
Length [m]	1	1	1
Coupling efficiency [%]	45*	75	95*

* Calculated value