

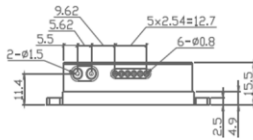
## 790 nm laser diode

Model 4: 50 W / 105 μm fiber / NA=0.22

Reference: 790LD-4-0-0

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power	W	50		
Center Wavelength	nm	790	793	796
Spectral Width (FWHM)	nm		3.0	5.0
Threshold Current	A		0.9	
Operating Current	A		4.8	6.0
Operation Voltage	V		22.0	24.0
Conversion Efficiency	%		48	
Wavelength shift w Temperature	nm/°C		0.3	
Wavelength shift w Current	nm/A		0.7	
Slope Efficiency	W/A		12.8	
Back reflection isolation WL range	nm	1800		2100
Back reflection isolation	dB		40	
Storage Temperature	°C	-30		70
Case Operating Temperature	°C	15	25	45
Minimum Fiber Bend Radius	mm	30		
Fiber Buffer/tube Diameter	μm		900	
Fiber Clad Diameter	μm		125	
Fiber Core Diameter	μm		105	
Numerical Aperture	NA		0.22	
Soldering Temperature	°C			260
Soldering time	s			10
Dimensions	mm	120.5*66*15.5		
Mounting holes (Diameter/distance)	mm	3+2 / Ø3.5 / 30 (+30) * 60		
Fiber connector	Yes (SMA905)			
ROHS Compliant	Yes			

Form factor:



Pin Assignment	
Pin	Function
1	LD (+)
2	LD (-)

