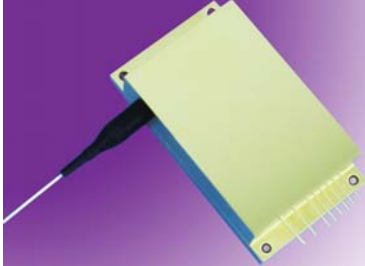


LDM-793-16-C1



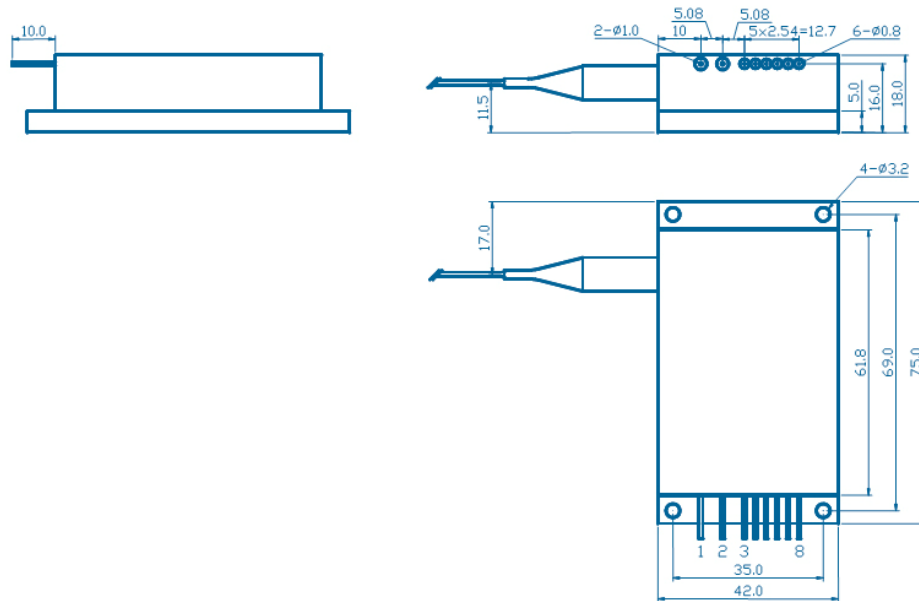
Characteristics
Output Power 16W
Fiber Coupling 105μm
Fiber Core Dia. 0.22NA
Application
Medical use, Laser pumping

Parameter		Symbol	Typical	Unit
Optical	CW Out Power	P_{op}	16	W
	Center Wavelength	λ	793±3	nm
	Spectral Width (90% of Power)	$\Delta\lambda$	<3.0	nm
	Wavelength Shift width Temperature	$\Delta\lambda/\Delta T$	0.35	nm / °C
Electrical	Threshold Current	I_{th}	0.5	A
	Operating current	I_{op}	2.5	A
	Operating Voltage	V_{op}	16	V
	Slop Efficiency	η_{es}	8.0	W / A
	Power Conversion Efficiency	η_{ep}	40	%
Fiber	Fiber Core Diameter	d_{core}	105	μm
	Fiber Cladding Diameter	d_{clad}	125	μm
	Fiber Buffer Diameter	d_{buffer}	250	μm
	Numerical Aperture	NA	0.22	-
	Fiber Length	L	1.0	m

Other Parameters

Parameter	Operating Temperature/°C	Operating Relative Humidity/%	Storage Temperature/°C	Storage Relative Humidity/%	Lead Soldering Temperature, 10s max/°C
Min	10	-	-20	-	-
Max	40	75	80	90	250

Package Dimensions (mm)



Pins and Functions			
Pin	Function	Pin	Function
1	Laser(+)	5	Thermistor
2	Laser (-)	6	Thermistor
3	PD(P)	7	NA
4	PD(N)	8	NA



793nm Diode Laser Characteristics (25°C)

