

785 nm Infrared Diode Laser for Raman Spectroscopy

Model #: FC-D-785

Description: With narrow spectral bandwidth, spectral purity and a high level of wavelength stability, FC-D-785 laser module is designed specifically for Raman spectroscopy, which has integrated laser drivers and thermoelectric coolers together. Its compact dimension and convenient functions make it ideal for industrial and medical applications.

Application: spectrum stabilized for Raman spectroscopy

Specifications

Wavelength (nm)	785 ± 0.5		
Output Power after Fiber (mW)	>200, 300, 450		
Spectral Line Width (nm)	0.2 (0.1, 0.06 optional)		
Operation Mode	CW		
Power Stability (rms, over 4 hours)	<1%, <2%, or <3%		
Fiber Core Diameter (um)	100 (NA 0.22)		
Fiber Connector	SMA905		
Central Wavelength Stability (rms, over 2 hours, pm)	<10		
Amplitude Noise (rms, 1-20MHz)	<1% (<0.5% optional)		
Warm-up Time (minutes)	<5		
Operating Temperature (C°)	10 ~ 35		
Power Supply (90-264VAC or 5V DC)	Adaptor (100-240VAC)	5VDC@5A	7-15VDC@5A
TTL Modulation	0-100KHz		
Rise Time (μs)	<10		
Expected Lifetime (hours)	10000		
Warranty Period	1 year		

Ordering Information: FC-D-785-A-B-C

AA: maximum output power	B: power stability	C: power driver
200 - 200 mW	1 - 1%	1 - Adaptor
300 - 300 mW	2 - 1%	2 - 5VDC@5A
450 - 450 mW	3 - 1%	3 - 7-15VDC@5A
X - other		

FC-D-785	Adaptor
<p>130(L)x98(W)x51(H) mm3, 0.9kg</p>	<p>120(L)x60(W)x37(H) mm3, 0.3kg</p>

