

980 nm laser diode

420 W – 200 μm fiber – 0.22 NA

Reference: 980LD-9-0-0

Technology : Multi-emitter Multimode

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power	W	420		
Center Wavelength	nm	973	976	979
Spectral Width (FWHM)	nm		4	
Threshold Current	A		1.0	
Operating Current	A		21.0	
Operation Voltage	V		42.0	
Wavelength shift w Temperature	nm/°C		0.3	
Wavelength shift w current	nm/A		1.0	
Slope Efficiency	W/A		21.5	
Feedback isolation	nm	1020		1200
	dB	30		
Storage case temperature	°C	-20 (abs min)		70 (abs max)
Operating case temperature	°C	15 (abs min)		35 (abs max)
Fiber bend radius	mm	50 (abs min)		
Fiber Buffer/tube Diameter	μm		245/900	
Fiber Clad Diameter	μm		220	
Fiber Core Diameter	μm		200	
Numerical Aperture	NA		0.22	
Soldering Temperature	°C			260
Soldering time	s			10
Dimensions	mm	141*55*18		
Mounting holes (diam./dist.)	mm	Ø3.4 / 130*55		
Fiber connector	Yes (HP-SMA905)			
Fiber bend radius	mm	50		

Please solder the pins when the level of current is over 6A

