



PRODUCT DATA SHEET

Laser Diode (HHL w/fiber package)

Model FB-M1600-500HF

Specification	Symbol	Typical	Unit
Laser Emitter (at Top=25 degree)			
Peak Wavelength	λ_{op}	1600±20	nm
CW Optical Output Power	P_{op}	0.5	W
Operation Current	I_{op}	<3.5	A
Operation Voltage	U_{ld}	1.2±0.1	V
Threshold Current	I_{th}	< 0.6	A
Spectrum Half-Width (FWHM)	$\Delta\lambda$	<10	nm
Operation Mode		CW, QCW, Pulse ($\tau > 5ns$)	-
Optical Fiber			
Fiber diameter		200	µm
Coating diameter		220	µm
Outer diameter		3	mm
Numerical Aperture		0,22	-
Fiber Length		1	m
Optical Connector Type		FC	-
Photo Diode Monitor			
PD Monitor Current		1-1000	µA
PD Reverse Voltage		9	V
TEC			
Maximum Current		5	A
Maximum Operation Voltage		3,8	V
Other parameters			
Thermistor Resistance		10	kilohm
Operation Temperature Range		-20... +40	degree
Wavelength Temperature Coefficient	$\Delta\lambda/\Delta T$	6.5±0.5	Å/degree
Guaranteed Life Time		1	year



Thermistor resistance diagram

Typical Spectrum

