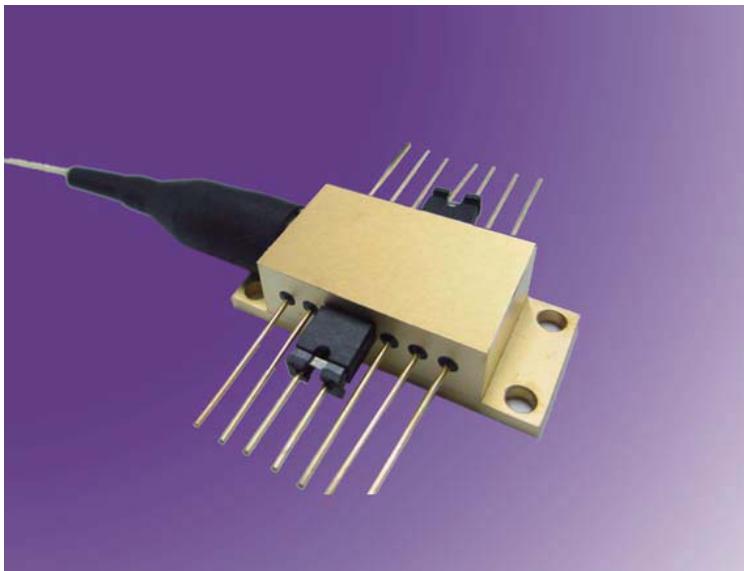


785nm 600mW wavelength-stabilized Laser Diode Module

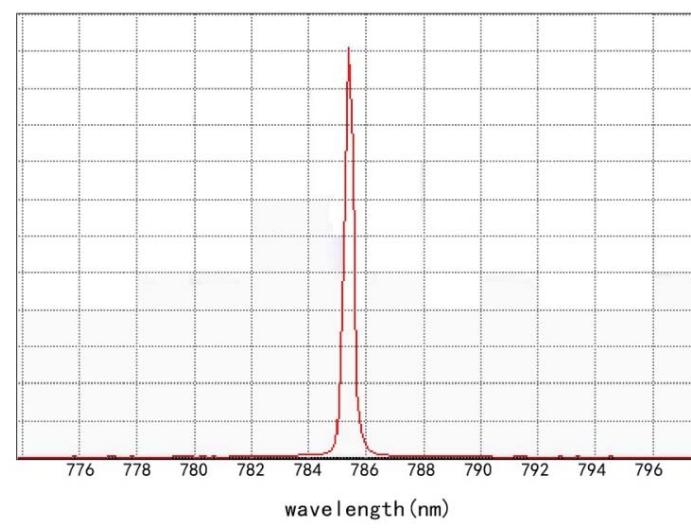
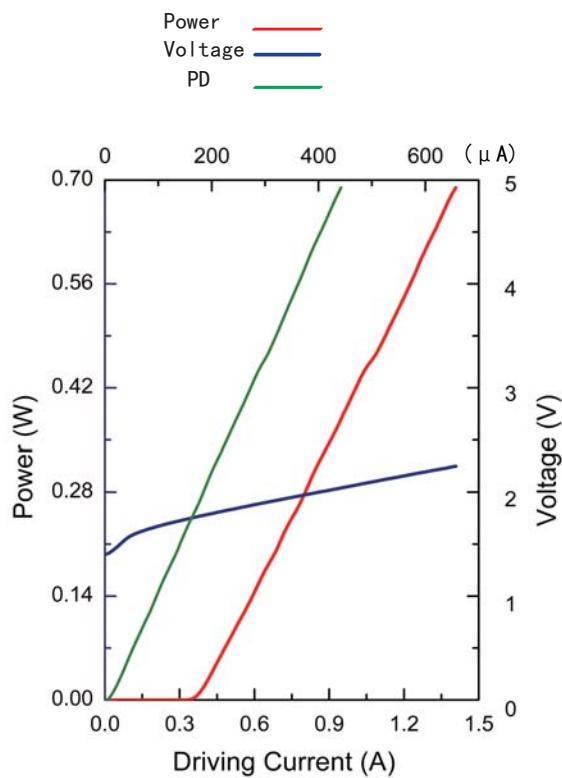
Functions: PD, TEC, Thermistor

G785-600mWF-14BTF-TG



Features
output power: 600mW
785±0.5nm wavelength locked
105 μm core multimode optical fiber
0.22NA
current locking range: 0.3–1.4A
Temperature locking range: 15–35°C

785nm Characteristics (25°C)



Typical Device Performance (25°C)

Parameter		Symbol	Typical		Unit
			G785-600mWF-14BTF-TG		
Optical	CW Output Power	P _{op}	600		mW
	Center Wavelength	λ _c	785±0.5		nm
	Spectral Width (90% of Power)	△λ	≤0.3		nm
	Wavelength Shift with Temperature	△λ / △T	0.02		nm/°C
	Wavelength Shift with Current	△λ / △I _{op}	0.05		nm/A
Electrical	Threshold Current	I _{th}	0.36		A
	Operating Current	I _{op}	1.4		A
	Operating Voltage	V _{op}	2.3		V
	Slope Efficiency	η _{es}	0.6		W/A
Pilot beam	PD Parameter	I _{mo}	100~600		μA
	TEC max Current	I _{max}	2.2		A
	TEC max Voltage	V _{max}	8.7		V
	Thermistor	R _t	10±5%/3477		(KΩ) / β (25°C)
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	-	SMA905		-

Other Parameters

Parameter	Operating Temperature /°C	Operating Relative Humidity /%	Storage Temperature /°C	Storage Relative Temperature /°C	Lead Soldering Temperature, 10s max/ °C
Min	10	-20	-	-	10000
Max	30	80	90	250	-

Package Dimensions (mm)

Pin	Function	Pin	Function
1	TEC (+)	8	-
2	Thermistor	9	-
3	PD (P)	10	Laser (+)
4	PD (N)	11	Laser (-)
5	Thermistor	12	-
6	-	13	Case
7	-	14	TEC (-)

