

Fiber-coupled Laser Diode Module

STC-LDM-450-50

Typical Device Performance (25°C)

Optical	Unit	Typical Value
CW Output Power	W	50
Center Wavelength	nm	450, ±10
Electrical		
Threshold Current	A	0.2
Operating Current	A	2.5
Operating Voltage	V	27
Power supply mode		3 channels
Fiber		
Fiber Core Diameter	μm	400
Fiber Cladding Diameter	μm	440
Fiber Buffer Diameter	μm	700
Numerical Aperture	-	0.22
Fiber Length	m	1~5

*3 groups of LD assembled inside the module, 2.5A current and 27v voltage operating of each group.

Absolute Ratings

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

