

976 nm laser diode

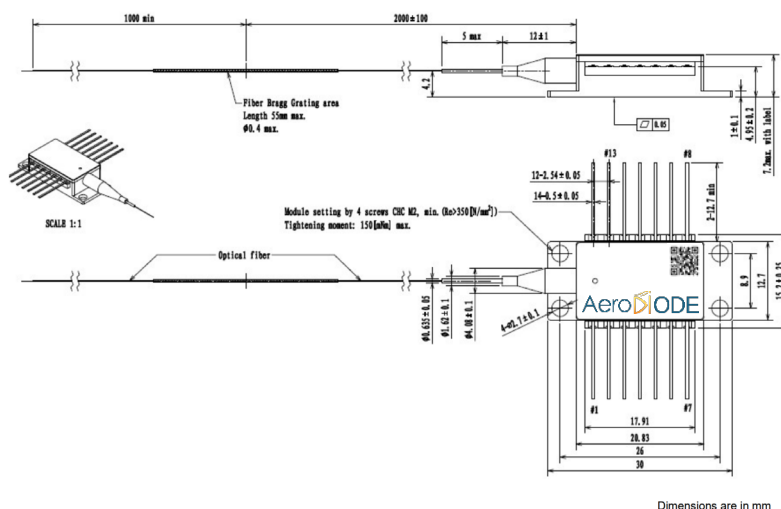
500 mW / singlemode PM fiber / Butterfly package

Reference: 976LD-1-0-0

Technology : Single mode FP with Bragg Grating

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power	mW	500		
Center Wavelength	nm	975	976	977
Spectral Width (FWHM)	nm			1.0
Threshold Current	mA			70
Operating Current	mA		750	
Operation Voltage	V			1.8
Wavelength shift w Temperature	nm/°C			0.02
Power in Band	%	90		
Polarization Extinction Ratio	dB	13		
Internal Photodiode Responsivity	mA/W	0.5		10
Internal Photodiode Dark Current	nA			100
TEC current (Case @ 75°C)	A			1.4
TEC Voltage (Case at 75°C)	V			3.2
Internal thermistor (25°C)	kOhm	9.5		10.5
Fiber type	PM980 or equivalent			
Fiber bend radius	mm	16 (abs min)		
Coating diameter	μm	230	250	270
Storage case temperature	°C	-40 (abs min)		85 (abs max)
Operating case temperature	°C	-20 (abs min)		75 (abs max)
Lead soldering temperature	°C			280
Laser diode reverse voltage	V			2.0
Polarization state	Aligned to the slow axis			

Form factor:



Laser diode pin configuration :

