

To request any additional information
please contact us at:

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Features

- Up to 150mW CW output power.
- Fiber Bragg Grating to stabilize wavelength to ± 1 nm.
- High Quality, Reliability, & Performance

Applications

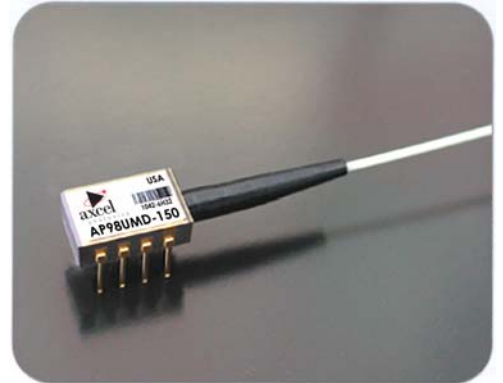
- Telecommunication
- Defense

Product Specifications

Mini-DIL Package 976nm Single-Mode Diodes

Description:

High brightness, high quality, and high reliability are the foundation of our single mode product line. Axcel's 976nm single mode laser diodes are available with up to 150mW of continuous output power from an uncooled mini-DIL packaged fiber module. Axcel's trademark laser chip design offers un-measurable degradation and long-lifetimes that make our chips among the most reliable in the industry today. Our 976nm Mini-DIL serves a broad range of applications including telecommunication and defense.



Fiber Bragg Grating comes standard with each module. The grating offers greater wavelength stability to within 1nm! Please contact our sales team for more information. Please view our website for mechanical drawings of all of our sub-mount, mount, and module packages.

Contact us today and learn how Axcel Photonics can accelerate your research and production!

Standard Product Specifications for 976nm Mini-DIL modules

Parameter	Unit	150mW			100mW		
		Min	Typ	Max	Min	Typ	Max
Wavelength	nm	975	976	977	975	976	977
Spectrum FWHM	nm	-	0.2	0.5	-	0.2	0.5
Rated Output Power	mW	-	150	-	-	100	-
Operating Current (I_o)	mA	-	350	400	-	240	290
Forward Voltage	V	-	1.8	2.4	-	1.8	2.3
Kink-Free Power	mW	165	-	-	135	-	-
SMSR (P_o , 25°C)	dB	20	-	-	20	-	-
SMSR(P_o ,0/60°C)	dB	10	-	-	10	-	-
Threshold (I_{th})	mA	-	18	45	-	18	45
Temp. Spectral Shift	nm/°C	-	0.01	0.02	-	0.01	0.02
Thermistor Resistance	Ω	9.5	10.0	10.5	9.5	10.0	10.5
Monitor Photocurrent	mA	0.1	-	2.0	0.1	-	2.0
Storage Temp.	°C	-40	-	80	-40	-	80
Operating Temp. (T_{op})	°C	0	25	70	0	25	70
Lead Soldering Temp. (5 sec)	°C	-	-	250	-	-	250

Note: 1) Specifications are subject to change without notice.
2) All Axcel Photonics products are TE polarized