



High-performance Laser Diode Pigtailed



www.princetel.com

Princetel, Inc.
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High-performance Laser Diode Pigtailling

Description

Princetel facilitates the bridge between diode lasers and their most desirable output media, optical fibers. By using a single mode optical fiber one can obtain a mathematically perfect Gaussian beam. Our pigtailling expertise allows our products to achieve high coupling efficiency, long-term stability and reliability. Princetel's high performance pigtailed modules meet or exceed the stringent demands of trace gas sensing applications. These modules feature extremely low back reflection and low Fabry-Perot modulation.

Specifications

Wavelength	635-2000 nm (see code for more choices)
Coupling efficiency (SM fiber)	>10% (30% typical)
Coupling efficiency (MM fiber)	>50% (>70% typical)
Operating temperature	0 to 40 C
Storage temperature	-20 to 60 C

**Call us if you are not sure about the
need for an isolator.**

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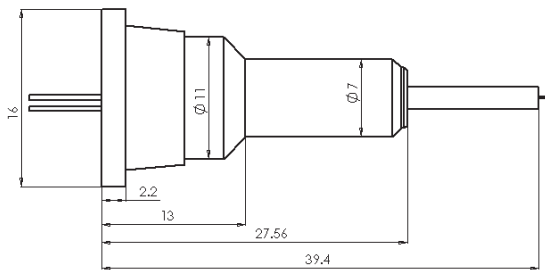


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Physical Properties

Package type	In-line cylindrical
Package Material	Stainless steel and aluminum
Fiber type	Singlemode, PM, multimode, or plastic
Jacket type	900 um tight or loose buffer, 3 mm cable
Connector type	FC/PC, SC/PC, ST, FC/APC, or SC/APC
Dimensions	See drawing
Weight	<10 g
Diode package type	5.6 or 9 mm TO CANs with hermetic seal

Mechanical



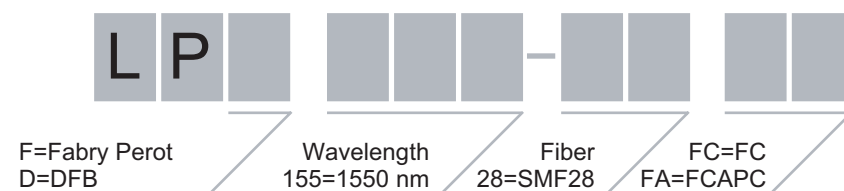
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Part Number



Wavelength and Fiber Code

Wavelength	Fiber
165=1625 nm	28=Corning SMF28 (1290=1650 nm)
162=1625 nm	13=Fujikura SM13 PANDA fiber
159=1590 nm	15=Fujikura SM15 PANDA fiber
155=1550 nm	56=3M FS-SN5624 (980 nm)
153=1530 nm	42=3M FS-SN4224 (850 nm)
148=1480 nm	32=3M FS-SN3224 (635 nm)
131=1310 nm	50=50/125 multimode
980=980 nm	62=62.5/125 multimode
850=950 nm	10=100/140 multimode
780=780 nm	20=200/240 multimode
670=670 nm	40=400/425 multimode
650=650 nm	60=600/630 multimode
635=635 nm	01=1000 um Mitsubishi plastic

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