Line Generator Optics



The compact and miniature series of Line Generator Optics (LGO) have been designed specifically for use with the corresponding ranges of Laser Diode Modules (LDM), see above. Simple to mount and adjust on a pre-focused LDM, these units emit a highly defined thin line of laser light. Applications include edge detection, scanning systems, medical and industrial alignment system and process control.

Laser light emitted at a fan angle of 40°

Approximate line length and thickness with distance:

5cm: 35mm 1mm, 30cm: 220mm 1.5mm, 90cm: 650mm 1.5mm

			Price Each		
	Order Code	1+	3+	5+	
Miniature LGO	623-258				
Compact LGO	623-260				

Self-Contained





IMATRONIC

Compact

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OPT365

This range of high quality, user focusable diode lasers with integral drive electronics offers reliability at an affordable price. The 635nm modules emit very bright spots or lines and are particularly suited to high ambient light level applications. Options include an easy to install flanged housing, and 'screw on' line generating optics for use with any module. Applications include alignment, positioning, security and machine vision

Wavelengths: Output powers:	635nm, 670nm, 780nm <1mW, (Class 2), 3mW, 5mW				
10-mW madulas (Olass Ob)	(Class 3a) with exception of 780nm and 635nm,				
IZMW modules (Class 3D)					
Housings:	12mm cylindrical or flanged 43mm				
Beam size (nom):	2mm 4mm				
Beam divergence:	<0.5 mrad				
Pointing stability:	<0.5mrad/deg C				
Supply voltage:	3 to 6V dc				
Current drain (typ):	<70mA				
Output power stabilisation:	<5%				
	Reverse polarity protected				
Operating temperature:	-10°C to +40°C (except 670nm 3mW -10°C to +6				

-10°C to +40°C (except 670nm 3mW -10°C to +60°C)

WARNING: These devices are laser diode modules and conform to BS (EN) 60825 emission criteria. Do not look directly into the laser beam. Eye protection should be worn as blink response is not sufficient to protect the human eye

<1mW visible - class II, 3mW & 5mW visible - class IIIa, 12mW - class 111b.

				Duine Fach	
		Order		Price Each	
Module Type	Housing	Code	1+	5+	10+
635nm, 1mw	Cylindrical	140-910			
635nm, 1mw	Flanged	140-922			
635nm, 3mw	Cylindrical	140-934			
635nm, 3mw	Flanged	140-946			
635nm, 5mw	Cylindrical	140-958			
635nm, 5mw	Flanged	140-995			
635nm, 12mw	Flanged	141-008			
670nm, 3mw	Cylindrical	141-010			
670nm, 3mw	Flanged	141-021			
670nm, 3mw,-10°C to	Ũ				
+60°C Op. Temp.	Cylindrical	141-033			
670nm, 3mw,-10°C to					
+60°C Op. Temp.	Flanged	141-045			
780nm, 3mW	Cylindrical	141-057			
780nm, 3mW	Flanged	141-069			
Line Generator	12° Fan	141-070			
Line Generator	22° Fan	141-082			



HFE4020-313 High radiance emitter. Typical power output 60µW at 50mA, seen at the end of a 10m length of 50µm core fibre. Suitable for single fibre 50µm dia and larger. Peak response = 850nm, Typical response time = 8ns.

- HFD3022-002 PIN photodiode detector. High sensitivity and fast response for use up to 50MHz. Peak response = 875nm, t_r = 15ns typ.

		Price Each			
Mftrs. List No.	Order Code	1+	10+	50+	
HFE4020-313	.620-026				
HFD3022-002	.327-736				
HFD3029-002	327-748				

Fibre Optics – Transceiver Modules & Chip Sets ATM OC3 & G/Bit Ethernet Agilent Technologies



No HP M/sou This range of fibre optic products covers the needs of applications that are standards-based or general purpose. They offer greater bandwidth capability

than wire links, such as twisted pair or coaxial cable, fibre links offer other benefits as well including isolation of current and voltage, it does not radiate, nor is it susceptible to, electromagnetic interference. In addition, fibre cable is not easily

tapped, providing secure communication and fibre link eliminates the problems associated with grounding. A fibre signal line may be placed next to noise sources such as motors or power lines without any interference problems because fibre does not generate electomagnetic radiation, it does not induce cross-talk.

Application	Data Rate	Distance	Pin Out	Mftrs. List No.	Cable Size
ATM OC3	155Mbps 155Mbps	2km 15km	19 19	HFBR-5205 HFCT-5205B	62.5µm 9µm
G/Bit Ethernet	1.5GBd		N/A N/A	HDMP-1024 HDMP-1022	

HFBR-5103

FDDI/Fast Ethernet complaint, optical transceiver in a 1 9 pin package. Capable of 125MBd over 2km in a 62.5µm fibre.

HFRR-5205

ATM, OC-3/STM-1 compliant transceiver in a 1 9 pin package. 155Mbps over 2km in a 62.5µm multimode fibre.

HFCT-5205B

SONET OC-3/SDH STM-1 compliant, singlemode transceiver in a 1 9 pin package. Pin for pin compatible with multimode transceiver HFBR-5205. 155Mbps over 15km in a 9µm singlemode fibre.

HDMP-1022

Low cost Gigabit transmitter IC with TTL I/O. 150-1500MBd serial data rate per proprietary point to point links over copper or optical fibre.

HDMP-1024

OPT578

Low cost Gigabit receiver IC with TTL I/O. 150-1500MBd serial data rate per proprietary point to point links. OPT510

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	
HFBR-5205	942-730				
HFCT-5205B	140-065				
HDMP-1022	942-870				
HDMP-1024	942-881				

155MBd, 622MBd Fibre Optic Transceivers



A range of transceiver modules that are fully compliant with all major existing standards. The V23809xxx series have industry standard footprints with a low profile package height of 9.8mm. The V23818-C8-V10 is a small form factor module which is half the width of the 'traditional' industry standard and occupies only 5cm2 of PCB area compared with the

Infineon

				norma	5.7011.		
	Standard	Data Bate	Pin Out	Fibre Type	Wavelength	Distance	Mftrs. List No.
F	ATM/FDDI/ Fast Ethernet	155MBd	1 x 9	Multimode	1300nm	2000m	V23809-C8-C10
F	ATM/FDDI/ Fast Ethernet	155/ 194MBd	1 x 9 Small Form Factor	Multimode	1300nm	2000m	V23818-C8-V10
ł	ATM	622MBd	1 x 9	Single mode	1300nm	15km	V23826-H18-C63 0PT59
	Mftrs Li V23809 V23818 V23826	st No. -C8-C10 -C8-V10 -H18-C63	Orc 14 14 14	ler Code 43-443 43-467 43-479	Pı 1+	r ice Each 5+	10+

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