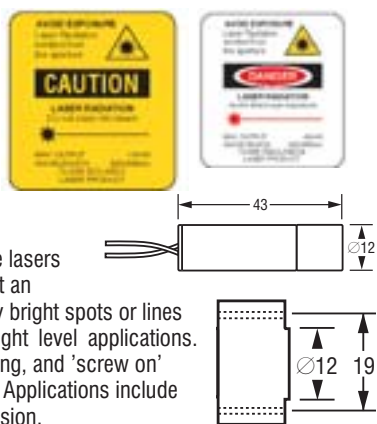


Self-Contained



MELLES GRIOT



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	635nm, 670nm, 780nm
Output powers	<1mW, (Class2), 3mW, 5mW (Class 3a) with exception of 780nm and 635nm
12mW modules (class 3b)	
Housings:	12mm cylindrical or flanged x 43mm
Beam size (Nom.)	2mm x 4mm
Beam Divergence	<0.5 mrad
Pointing Stability	<0.5 mrad/deg C
Supply Voltage	3 to 6V dc
Current Drain (typ.)	<70mA
Output Power Stabilisation	<5%
Operating Temperature	Reverse Polarity protected -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 IIIb.

Module Type	Housing	Order Code	Price Each		
			1+	5+	10+
635nm, 1mW	Cylindrical	121-8965	9,798.00	7,901.00	--
635nm, 1mW	Flanged	121-8966	10,524.00	8,571.00	--
635nm, 3mW	Cylindrical	121-8968	11,068.00	8,973.00	--
670nm, 3mW	Cylindrical	121-8969	7,258.00	5,892.00	--
780nm, 3mW	Cylindrical	121-8970	7,620.00	6,420.00	6,160.00
Line Generator	12° Fan	121-8971	4,445.00	3,616.00	--

Fibre Optics - Transceiver Modules & Chip Sets

Multimode Fibre Transceiver
2 x 5 DIP, with MT - RJ Interface



- Single 3.3V supply
- Wave solder & Aqueous Wash Compatible
- Receiver output squelch function enabled



This family of multimode fibre optic transceivers provide products suitable for FDDI, SONET OC - 3 physical layers for ATM and other services. The transceivers are supplied in industry standard 2 x 5 DIP style packages with an MT - RJ fibre connector. The ATM versions are fully compliant with the ATM Forum UNI SONET OC-3 specifications. The FDDI fast ethernet transceivers are fully compliant with the optical performance requirements of the FDDI PMD and the FDDI LCF-PMD standards. They are also fully compliant with the optical performance requirements of the ATM 100 Mb/s physical layer and of the 100 Base-FX version of IEEE 802.3u.

Supply Voltage (V)	Data Rate	Nominal Wavelength (nm)	Model Type	Operating Temp. (°C)	Shield	Mfrs List No.
3.3		1300	FDDI	0 to 70	None	AFBR-5903Z
3.3		1300	FDDI	0 to 70	Extended	AFBR-5903EZ
3.3		1300	FDDI	-40 to 85	None	AFBR-5903AZ
3.3		1300	SONET OC-3	0 to 70	None	AFBR-5905Z
3.3		1300	SONET OC-3	0 to 70	Extended	AFBR-5905EZ
3.3		1300	SONET OC-3	-40 to 85	None	AFBR-5905AZ

Mfrs. List No.	Order Code	Price Each		
		1+	10+	25+
AFBR-5903Z	945-0114	3,137.00	2,510.00	2,092.00
AFBR-5903AZ	945-0122	3,840.00	3,071.00	2,560.00
AFBR-5903EZ	945-0130	3,442.00	2,754.00	2,295.00
AFBR-5905Z	945-0149	3,137.00	2,510.00	2,092.00
AFBR-5905EZ	945-0157	3,442.00	2,754.00	2,295.00
AFBR-5905AZ	945-0165	3,840.00	3,071.00	2,560.00

Single Mode Transceiver
1 x 9 SIP, SC Duplex



- 1300nm products for 2000m back-bone links
- Interchangeable with LED multi-sourced 1 x 9 transceivers
- Wave solder and aqueous wash process compatibility
- Designed for Fibre backbone and closest to the desktop links



Standard	H=10.35, W=25.4, D=39.12mm
Mezzanine	H=9.8, W=25.4, D=39.6mm

This range of SC fibre transceivers provide a range of products for FDDI, 100 Mb/s ATM and Fast Ethernet or SONET OC-3/SDH STM-1 implementations. Both types are supplied in the industry standard 1 x 9 SIP duplex connector interface package.

The FDDI products are compliant with PMD standard, which is ISO/IEC 9314-3: 1990 and ANSI X3.166 - 1990.

The SONET OC-3 products are fully compliant with ATM forum UNI SONET OC-3 multimode fibre physical layer specification.

Supply Voltage (V)	Height	Model Type	Operating Temp. (°C)	Shield	Mfrs List No.
5.0	Standard	FDDI	0 to 70	None	AFBR-5103Z
5.0	Standard	FDDI	-40 to 85	None	AFBR-5103AZ
5.0	Mezzanine	FDDI	0 to 70	None	AFBR-5103PZ
5.0	Mezzanine	FDDI	0 to 70	Extended	AFBR-5103PEZ
3.3 or 5.0	Standard	FDDI	0 to 70	None	AFBR-5803Z
3.3 or 5.0	Standard	FDDI	-10 to 85	None	AFBR-5803AZ
5.0	Mezzanine	SONET OC-3	0 to 70	None	AFBR-5205Z
5.0	Mezzanine	SONET OC-3	-40 to 85	None	AFBR-5205AZ
5.0	Standard	SONET OC-3	0 to 70	None	AFBR-5205PZ
5.0	Standard	SONET OC-3	0 to 70	Extended	AFBR-5205PEZ
3.3 or 5.0	Standard	SONET OC-3	0 to 70	None	AFBR-5805Z
3.3 or 5.0	Standard	SONET OC-3	-40 to 85	None	AFBR-5805AZ

Mfrs. List No.	Order Code	Price Each		
		1+	10+	25+
AFBR-5103Z	944-9892	2,514.00	2,012.00	1,677.00
AFBR-5103AZ	944-9914	3,045.00	2,436.00	2,030.00
AFBR-5103PZ	944-9930	3,045.00	2,436.00	2,030.00
AFBR-5103PEZ	944-9949	3,045.00	2,436.00	2,030.00
AFBR-5205Z	944-9965	2,514.00	2,012.00	1,677.00
AFBR-5205AZ	944-9973	2,514.00	2,012.00	1,677.00
AFBR-5205PZ	944-9990	3,045.00	2,436.00	2,030.00
AFBR-5205PEZ	945-0009	3,045.00	2,436.00	2,030.00
AFBR-5803Z	945-0025	2,514.00	2,012.00	1,677.00
AFBR-5803AZ	945-0041	3,045.00	2,436.00	2,030.00
AFBR-5805Z	945-0076	2,514.00	2,012.00	1,677.00
AFBR-5805AZ	945-0084	3,045.00	2,436.00	2,030.00

Single Mode Transceiver
1 x 9 SIP, ST Duplex



- 1300nm products for 2000m back-bone links
- Interchangeable with LED multi-sourced 1 x 9 transceivers
- Wave solder and aqueous wash process compatibility
- Designed for Fibre backbone and closest to the desktop links



H=12, W=25.4, D(O/A)=42, D(Body)24.8 mm

This range of ST fibre transceivers provide a range of products for FDDI, 100 Mb/s ATM and Fast Ethernet or SONET OC-3/SDH STM-1 implementations. Both types are supplied in the industry standard 1 x 9 SIP duplex connector interface package.

The FDDI products are compliant with PMD standard, which is ISO/IEC 9314-3: 1990 and ANSI X3.166 - 1990.

The SONET OC-3 products are fully compliant with ATM forum UNI SONET OC-3 multimode fibre physical layer specification.

Supply Voltage (V)	Model Type	Operating Temp. (°C)	Mfrs List No.	Supply Voltage (V)	Model Type	Operating Temp. (°C)	Mfrs List No.
5.0	FDDI	0 to 70	AFBR-5103TZ	5.0	SONET OC-3	0 to 70	AFBR-5205TZ
5.0	FDDI	-40 to 85	AFBR-5103ATZ	5.0	SONET OC-3	-40 to 85	AFBR-5205ATZ
3.3 or 5.0	FDDI	0 to 70	AFBR-5803TZ	3.3 or 5.0	SONET OC-3	0 to 70	AFBR-5805TZ
3.3 or 5.0	FDDI	-10 to 85	AFBR-5803ATZ	3.3 or 5.0	SONET OC-3	-40 to 85	AFBR-5805ATZ

Mfrs. List No.	Order Code	Price Each		
		1+	10+	25+
AFBR-5103ATZ	944-9922	3,045.00	2,436.00	2,030.00
AFBR-5103TZ	944-9957	2,514.00	2,012.00	1,677.00
AFBR-5205ATZ	944-9981	3,045.00	2,436.00	2,030.00
AFBR-5205TZ	945-0017	2,514.00	2,012.00	1,677.00
AFBR-5803ATZ	945-0050	3,045.00	2,436.00	2,030.00
AFBR-5803TZ	945-0068	2,514.00	2,012.00	1,677.00
AFBR-5805ATZ	945-0092	3,045.00	2,436.00	2,030.00
AFBR-5805TZ	945-0106	2,514.00	2,012.00	1,677.00