



AFONICS

Preliminary Specification

LXP0060

- 1310nm FP laser
- 9/125µm pigtailed package
- FC/PC connector

Performance Highlights

- Minimum fibre output power of 250µW
- Electrically isolated housing
- Operating temperature -30°C to +75°C

LIMITING VALUES	SYMBOL	VALUE	UNITS
Laser diode continuous forward current ⁽¹⁾	I_{FLD}	$I_{TH} + 40$, DC	mA
Laser diode reverse voltage	V_{RLD}	2	V
Monitor photodiode continuous forward current	I_{FPD}	2	mA
Monitor photodiode reverse voltage	V_{RPD}	20	V
Operating temperature	T_{amb}	-30 to +75	°C
Storage temperature	T_{stg}	-30 to +85	°C
Soldering temperature 2mm from case for 10s	T_{sld}	250	°C

OPTICAL/ELECTRICAL CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITION
Fibre output power	P_F	250		500	µW	$I_F = I_{OP}$ (defines I_{OP})
Laser threshold current	I_{TH}		6	20	mA	CW
Laser operating current	I_{OP}		30	45	mA	
Laser operating voltage	V_{OP}		1.1	1.5	V	$I_F = I_{OP}$
Laser wavelength	λ_p	1280	1310	1340	nm	$I_F = I_{OP}$
Laser rise / fall time (10% to 90%)	t_{Lr} / t_{Lf}		0.3	0.7	ns	$I_F = I_{OP}$
Laser spectral bandwidth	$\Delta\lambda$		1	3	nm	$I_F = I_{OP}$
Monitor photocurrent	I_M	0.05	0.5		mA	$I_F = I_{OP}$
Monitor photodiode dark current	$I_{D(PD)}$		10	100	nA	$V_{R(PD)} = 10V$
Monitor photodiode capacitance	C_{PD}		8	20	pF	$V_{R(PD)} = 10V, I_F = I_{OP}$

All values apply at a temperature of 25°C

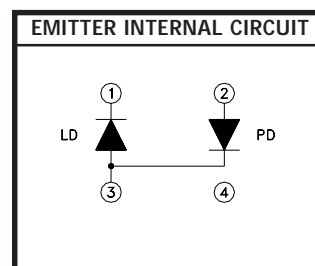
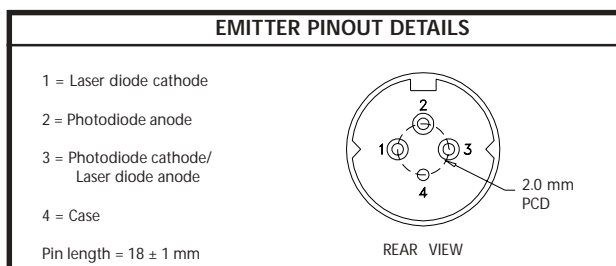
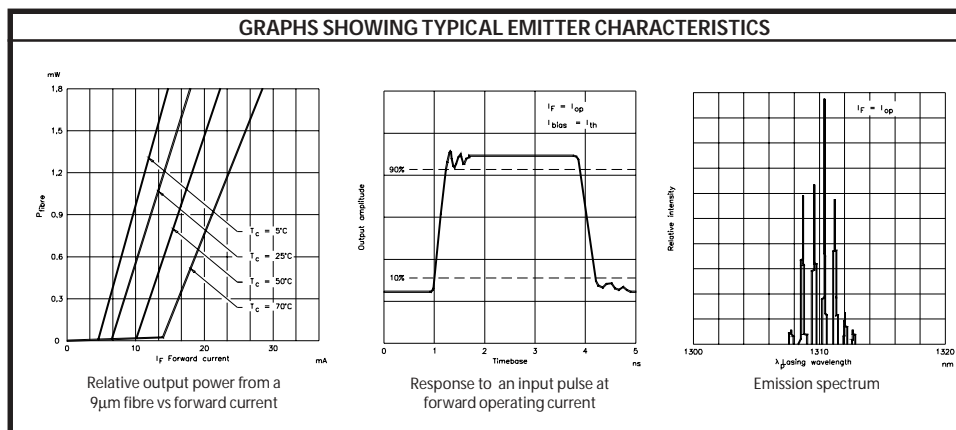
(1): Stated maximum laser operating current must not be exceeded when operated under pulsed conditions



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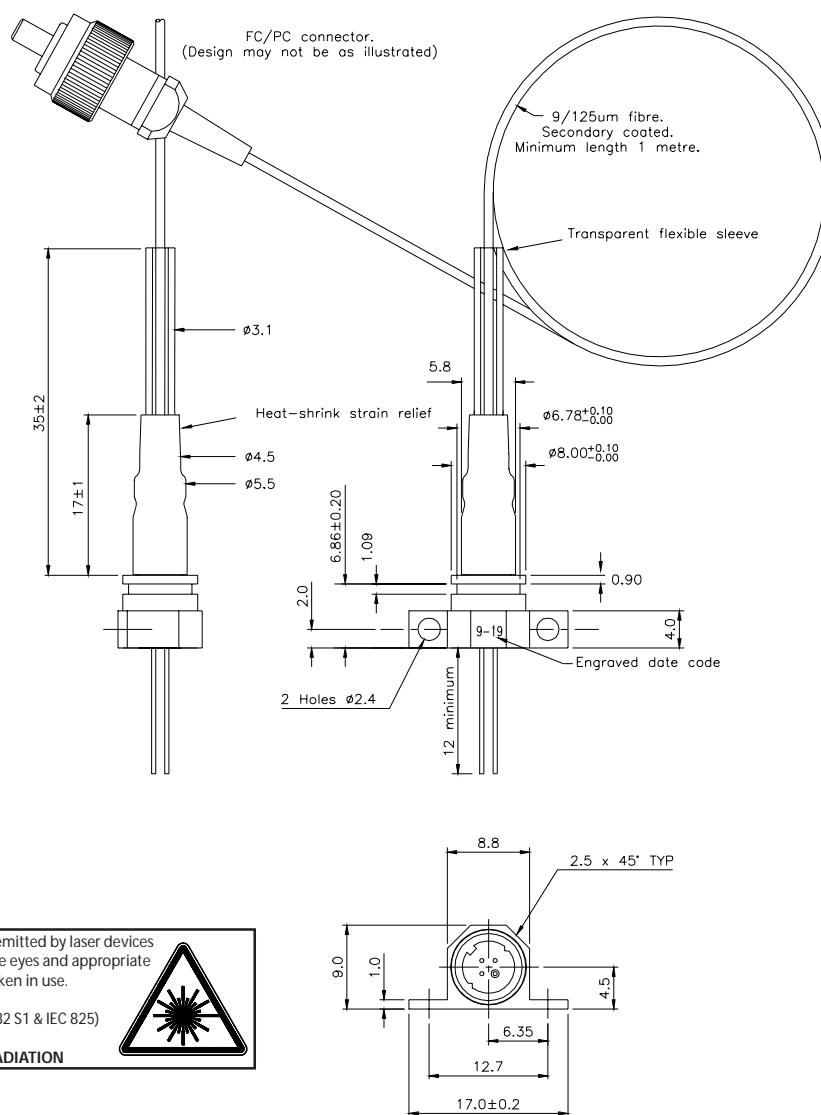
NOTES: The device is very susceptible to damage by electrostatic discharge.



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NOTES:

- 1) All dimensions are in mm. Tolerances are ± 0.10 mm unless otherwise stated.
- 2) Other connector options available as different part numbers:
LXP0061 (SC/PC), LXP0062 (ST/PC), LXP0063 (LC/PC)