

SLD unit with Drive Circuits **AM8P4005SL45C**

AM8P4005SL45C is 840nm SLD unit with drive circuits developed as light sources for ophthalmology OCT. It has built in both SLD light source and drive circuits so that it is suitable for embedding.

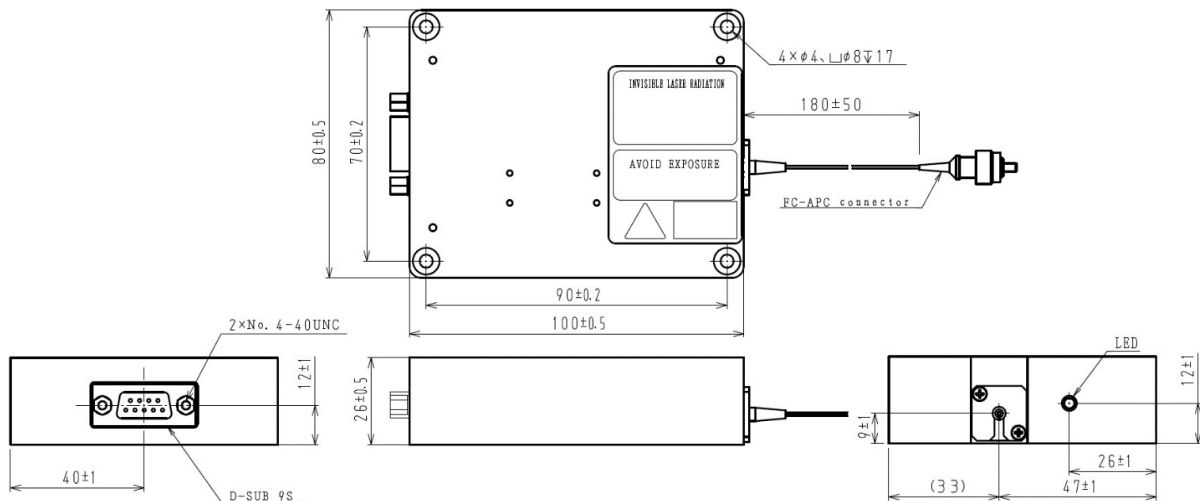
FEATURES

- Center wavelength / Spectral Bandwidth: 840 nm / 45 nm
- Built in SLD source and drive circuits
- SMF output
- D-sub 9pin female connector

APPLICATION

- Embedding into ophthalmology OCT
- Embedding into optical interferometry system

DIMENSIONS



(Unit : mm)

ABSOLUTE MAXIMUM RATINGS

Item	Ratings	Unit
Input Voltage (+5 V _{DC})	5.5	V
Input Voltage (V _{set})	2.75	V
Storage Temperature	-20 to +65	°C
Storage Humidity	95	%

*No condensation

PIN CONFIGURATION

No.	FUNCTION	IN/OUT
1	+5 V _{DC}	IN
2	NC	—
3	SLD Enable	IN
4	Alarm	OUT
5	V _{set}	IN
6	GND	—
7	NC	—
8	NC	—
9	V _{PD}	OUT

*Alarm: Abnormal = High, Normal = Low

*SLD Enable: See Optical and electrical characteristics

OPERATING CONDITIONS

Item	Ratings	Unit
Input Voltage (+5 V _{DC})	4.75 to 5.25	V
Input Voltage (V _{set})	0 to 2.5	V
Operating Temperature	+10 to +55	°C
Operating Humidity*2	90	%

*1 No condensation

OPTICAL AND ELECTRICAL CHARACTERISTICS (T_C = 25°C)

Item	Symbol	Test condition	Min.	Typ.	Max.	Unit
Optical Output Power*3	P _{max}	V _{set} = 2.5 V	4.5	–	5.5	mW
Center Wavelength	λ _c	V _{set} = 2.5 V, -3 dB	820	840	860	nm
Spectral Bandwidth	Δλ	V _{set} = 2.5 V, -3 dB	45	–	–	nm
Supply Current	–	Output P _{max} , T _C = 55°C	–	0.4	2.0	A
Power Consumption	–	Output P _{max} , T _C = 55°C	–	2.0	10.0	W
V _{set} Input Voltage	V _{set}	Control from P _{min} to P _{max}	0.0	–	2.5	V
V _{set} Input Impedance	–	–	5	–	–	kΩ
V _{PD} Output (Open Circuit Voltage at Output End)	V _{PD}	V _{PD} = 0 to 3 V (±0.3 V) in P _f = P _{min} to P _{max}	0.0	–	3.3	V
V _{PD} Output Impedance	–	–	–	100	–	Ω
SLD Enable Signal TTL/High	V _H	V _H : SLD ON	3.80	–	–	V
SLD Enable Signal TTL/Low	V _L	V _L : SLD OFF	–	–	1.02	V

*3 AM8P4005SL45C is designed as a component for use in customers' electronic products. As a result, it is excluded from FDA 21 CFR 1040.10 compliance. This product corresponds with IEC laser safety class 3B.

*Optical output or spectrum may be changed, due to the optical feedback.

*P_{min} : <0.1 mW, P_{max} : 4.5 to 5.5 mW



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