

## SLD unit with Drive Circuits AM8P8006SL45G

AM8P8006SL45G is 880nm 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

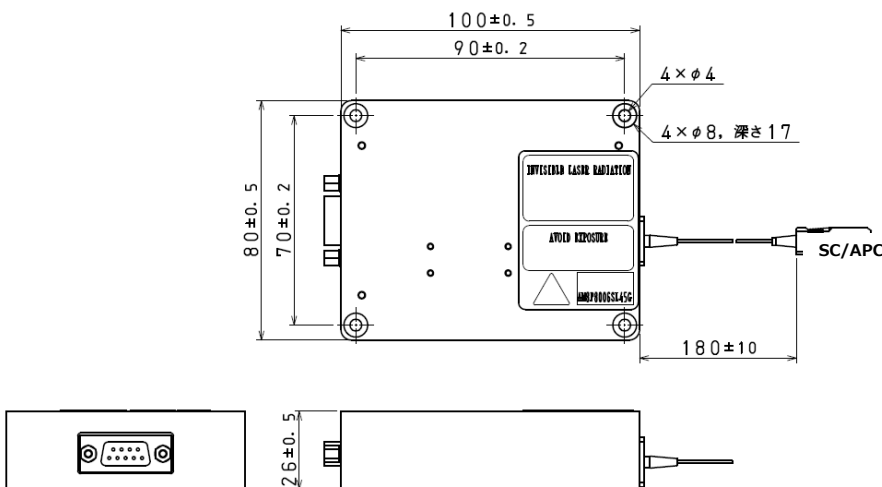
- Center wavelength: 880nm
- Half spectrum width: 50nm
- Built in SLD source and drive circuits
- SMF output
- D-sub 9pins female connector



### APPLICATIONS

- Light source for ophthalmology OCT
- Optical measurement

### DIMENSIONS



### PIN CONFIGURTAION

No.	FUNCTION	IN/OUT
1	+5V DC	IN
2	N/C	-
3	SLD Enable	IN
4	Alarm	OUT
5	Vset	IN
6	GND	-
7	N/C	-
8	N/C	-
9	V <sub>PD</sub>	OUT

### ABSOLUTE MAXIMUM RATING

Item	Min.	Max.	Symbol
Input voltage (+5V DC)	4.5	5.5	V
Input voltage (Vset)	-	2.75	V
Storage temperature	-20	+65	°C
Storage humidity	-	95 <sup>*1</sup>	%

\*1 No condensation

## OPERATING CONDITIONS

Item	Min.	Max.	Symbol
Input voltage (+5V DC)	4.75	5.25	V
Input voltage (Vset)	0	2.5	V
Operating temperature	+10	+55	°C
Operating humidity	-	90 <sup>*1</sup>	%

\*1 No condensation

## OPTICAL AND ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=25°C)

Item	Symbol	Test condition	Min.	Typ.	Max.	Unit
Maximum optical output	P <sub>max</sub>	Vset=2.5V	6.0	-	7.0	mW
Center Wavelength (@-3dB)	λ <sub>c</sub>	Vset=2.5V	870	880	890	nm
Half spectrum width (@-3dB)	Δλ	Vset=2.5V	45	50	-	nm
Supply current	-	Output P <sub>max</sub> , +55°C	-	0.4	2.0	A
Power consumption	-	Output P <sub>max</sub> , +55°C	-	2.0	10.0	W
Input voltage (Vset)	Vset	Control from P <sub>min</sub> to P <sub>max</sub>	0.0	-	2.5	V
Vset input impedance	-		5	-	-	kΩ
V <sub>PD</sub> output (Open circuit voltage at output end)	V <sub>PD</sub>	V <sub>PD</sub> =0 to 3V (+/- 0.3V) in P <sub>f</sub> =P <sub>min</sub> to P <sub>max</sub>	0.0	-	3.3	V
V <sub>PD</sub> output impedance	-		-	100	-	Ω
SLD Enable Signal TTL/High	V <sub>H</sub>	V <sub>H</sub> : SLD ON	3.80	-	-	V
SLD Enable Signal TTL/Low	V <sub>L</sub>	V <sub>L</sub> : SLD OFF	-	-	1.02	V

(Note.) Optical output or spectrum may be changed, due to the optical feedback.

(Note:) P<sub>min</sub>: < 0.1mW, P<sub>max</sub>: 6 to 7mW

(Note:) Alarm: Abnormal = High, Normal = Low

(Note:) Please contact us, if any requests such as other center wavelength.



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