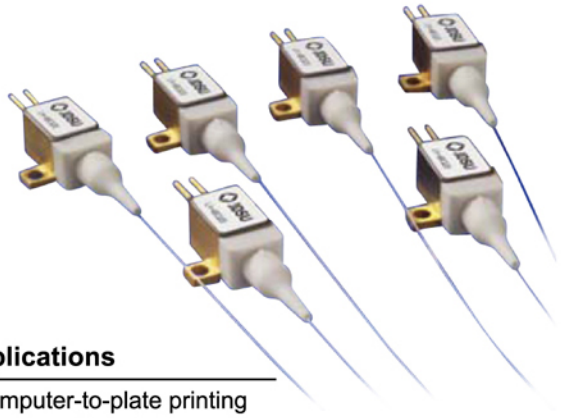
方全有限公司
Rapitech Enterprise Co.,Ltd.

二極體雷射
Diode Laser

JDSU



2486-L4系列 二極體雷射

High - Power 2 W 830 nm Fiber - Coupled Diode Laser - 2486 - L4 Series

Key Features

- 2 W output power
- High reliability
- 60 µm aperture
- 0.22 NA
- Isolated electrical contacts

Applications

- Computer-to-plate printing
- Flexographic printing
- Illumination

Specifications for L4-2486-003 and L4-2486-005

Parameter	Symbol	Minimum	Typical	Maximum
Laser Characteristics				
CW output power, 0.14 NA	Po	1.0 W	-	-
Mean wavelength	λ_p	815 nm	830 nm	845 nm
Spectral width (90% integrated power)	$\Delta\lambda$	-	2 nm	7 nm
Slope efficiency	η_D	-	0.95 W/A	-
Conversion efficiency	η	-	44%	-
Threshold current	I_{th}	-	280 mA	350 mA
Operating current (BOL)	I_{op}	-	1.4 A	2.0 A
Forward voltage	V_f	-	1.6 V	2.0V
Series resistance	R_s	-	0.07 Ω	-
Recommended case temperature	T_c	20°C	25°C	45°C
Wavelength tuning vs.temperature	$\Delta\lambda/\Delta T$	-	0.3 nm/°C	-
Wavelength tuning vs.output power	$\Delta\lambda/\Delta P$	-	1.6 nm/W	-
Fiber Characteristics				
Fiber core diameter	d_c	-	60 µm	-
Fiber numerical aperture	NA	0.20	0.22	0.24
Fiber cladding	d_{cl}	-	125 µm	-
Fiber buffer	d_b	-	250 µm	-
Fiber length	l_f	0.3 m	1 m	2.5 m

Specifications for L4-2486-004 and L4-2486-006

Parameter	Symbol	Minimum	Typical	Maximum
Laser Characteristics				
CW output power, 0.22 NA	Po	2.0 W	-	-
CW output power, 0.12 NA	Po	1.3 W	-	-
Mean wavelength	λ_p	815 nm	830 nm	845 nm
Spectral width (90% integrated power)	$\Delta\lambda$	-	2 nm	7 nm
Slope efficiency	η_D	-	1.0 W/A	-
Conversion efficiency	η	-	50%	-
Threshold current	I_{th}	-	280 mA	350 mA
Operating current (BOL)	I_{op}	-	2.3 A	2.7 A
Forward voltage	V_f	-	1.7 V	2.0 V
Series resistance	R_s	-	0.07 Ω	-
Recommended case temperature	T_c	20°C	25°C	45°C
Wavelength tuning vs.temperature	$\Delta\lambda/\Delta T$	-	0.3 nm/°C	-
Wavelength tuning vs.output power	$\Delta\lambda/\Delta P$	-	1.6 nm/W	-
Fiber Characteristics				
Fiber core diameter	d_c	-	60 µm	-
Fiber numerical aperture	NA	0.20	0.22	0.24
Fiber cladding	d_{cl}	-	125 µm	-
Fiber buffer	d_b	-	250 µm	-
Fiber length	l_f	0.3 m	1 m	2.5 m

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