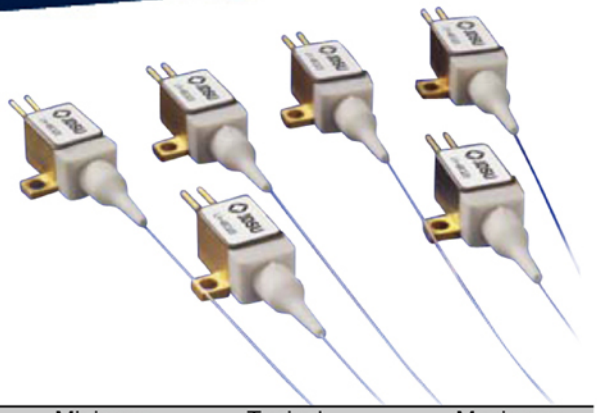
二極體雷射
Diode Laser

JDSU



2495-L4系列 二極體雷射

High - Power 4.5 W 808 nm Fiber - Coupled Diode Laser - 2495 - L4 Series

Specifications for 808 nm

Parameter	Symbol	Minimum	Typical	Maximum
Laser Characteristics				
CW output power, 0.22 NA	Po	4.0 W	-	-
Mean wavelength	λ_p	805 nm	808 nm	811 nm
Spectral width (90% integrated power)	$\Delta\lambda$	-	2 nm	5 nm
Slope efficiency	η_D	-	1.0 W/A	-
Conversion efficiency	η	-	43%	-
Threshold current	I_{th}	-	950 mA	1100 mA
Operating current (BOL)	I_{op}	-	4.8 A	5.7 A
Forward voltage	V_f	-	2.0 V	2.1 V
Series resistance	R_s	-	0.07 Ω	-
Recommended case temperature	T_c	18°C	25°C	35°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	-	105 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	0.9 m	1 m	-

Specifications for 812 nm

Parameter	Symbol	Minimum	Typical	Maximum
Laser Characteristics				
CW output power, 0.22 NA	Po	4.5 W	-	-
Mean wavelength	λ_p	804 nm	812 nm	820 nm
Spectral width (90% integrated power)	$\Delta\lambda$	-	2 nm	6 nm
Slope efficiency	η_D	-	1.0 W/A	-
Conversion efficiency	η	-	43%	-
Threshold current	I_{th}	-	950 mA	1100 mA
Operating current (BOL)	$I_{op\ 915\ nm}$	-	5.3 A	6.3 A
Forward voltage	V_f	-	2.0 V	2.1 V
Series resistance	R_s	-	0.07 Ω	-
Recommended case temperature	T_c	18°C	25°C	35°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	-	105 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	0.9 m	1 m	-

方全有限公司
Rapitech Enterprise Co.,Ltd.
244 新北市林口區仁愛路二段309號10樓
Tel：886-2-2608-8096（台北）/ Tel：86-21-6248-3333（上海）/ Fax：886-2-2608-8092
E-mail：sales@rapi-tech.com.tw www.rapi-tech.com