



Industrial and Material Processing

808nm 9XXnm Diode Laser

Applications

- Laser Plastic Welding
- Laser Soldering



	Typical Value						Units
Optical Parameters (25°C)							
Center Wavelength	808	808	9XX	9XX	9XX	9XX	nm
Center Wavelength Tolerance	±10	±10	±10	±10	±10	±10	nm
CW Output Power	30	50	50	100	200	300	W
Spectral Width (90% of Power)	<6.0						nm
Wavelength Shift with Temperature	0.3						nm/°C
Threshold Current	1.8	1.8	0.7	1.2	1.2	1.2	A
Operating Current	9.0	9.5	12.0	15.0	18.0	25.0	A
Operating Voltage	7.2	10.5	9.0	14.6	24.5	26.0	V
Slope Efficiency	4.0	6.5	4.4	7.2	12.5	12.5	W/A
Power Conversion Efficiency	45	50	45	45	45	45	%
Fiber Characteristics							
Core Diameter	200						µm
Numerical Aperture	0.22						-
Fiber Length	1.0						m
Fiber Connector	SMA905, FC/PC					D80	-
Accessories							
Aiming Laser(650nm) ¹	Optional						-
Monitor Photodiode	Optional						-
Packaging							
Package Model	C5	C5	C5	C5	C2A	D3	-
Absolute Ratings							
Operating Temperature	+10~+40						°C
Operating Relative Humidity	<75						%
Storage Temperature	-20~+80						°C
Storage Relative Humidity	<90						%
Soldering Temperature, 10s max	<250						°C

¹ Optional built-in constant power circuit, 5V power supply needed. Blue or green aiming beam available.