



LASER DIODE FAXD-808-5W-200-HHLW

FAXD-808-5W-200-HHLW is a multimode semiconductor laser diode with 5W CW output power at 808nm. The emitter size is 200µm. It is packed in a high heat load package with window and is suitable for the use in various opto-electronic applications.

APPLICATIONS:

- Solid State Pumping
- Graphics
- Medical/Dental
- Industrial
- Defense

Optical and electrical characteristics (T = 25°C, P = 5W):

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Power	P_{out}	-	5	-	W
Wavelength	λ	805	808	811	nm
Spectrum FWHM	$\Delta\lambda$	-	2	4	nm
Threshold Current	I_{th}	-	0.8	1.1	A
Forward Current	I_f	-	5.0	6.0	A
Forward Voltage	V_f	-	2.2	2.5	V
Slope Efficiency	$\Delta P/\Delta I$	1.0	1.2	-	W/A
Vertical Far Field (FWHM)	Θ_{\perp}	-	30	35	°
Parallel Far Field (FWHM)	Θ_{\parallel}	-	8	11	°
Emitter Size		-	100	-	µm
Operating Temperature		0	25	75	°C
Storage Temperature		-40	-	80	°C
TEC Current	I_{TEC}	-	-	3.8	A
TEC Voltage	V_{TEC}	-	-	8.6	V
Lifetime	10000 hours				
Lead Solder Temperature	250°C for 5 seconds				

Available Packages: HHL with window