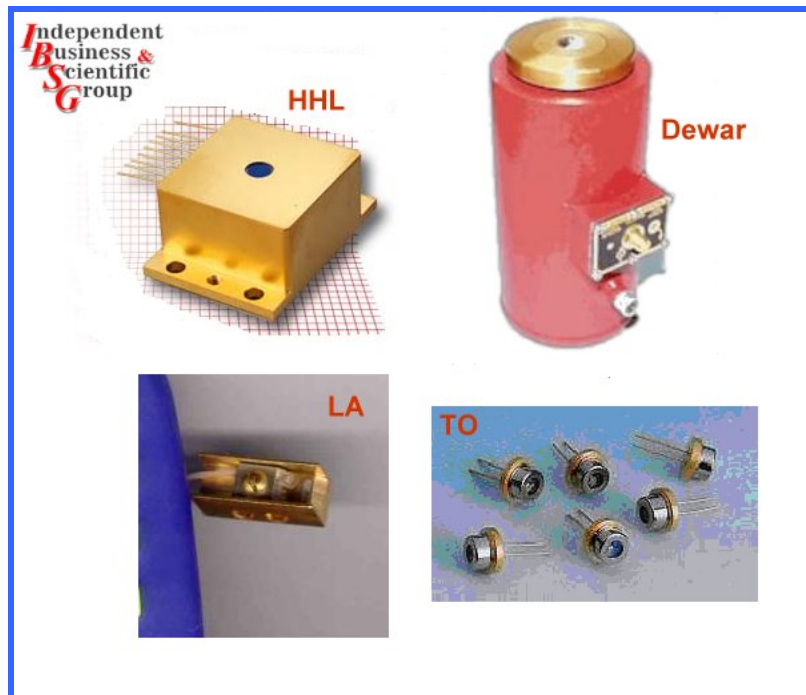


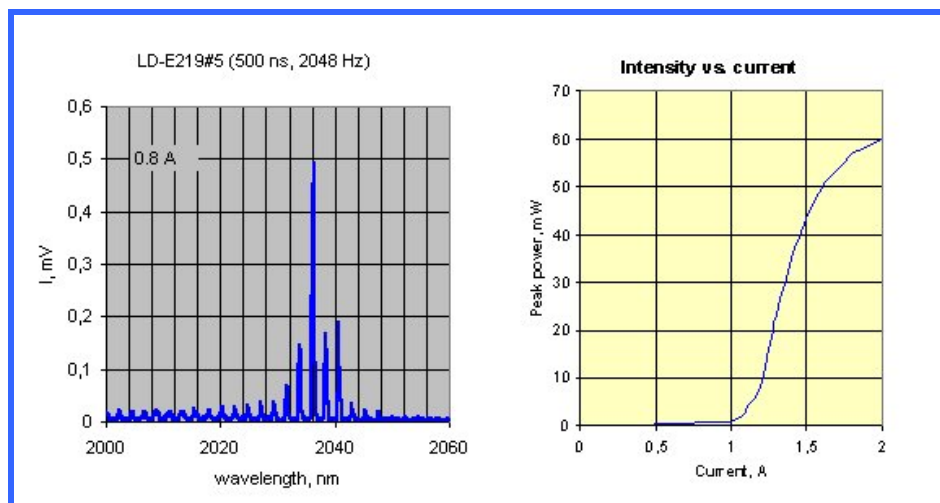


IBSG Infra Red Laser Diodes



IBSG Co., Ltd manufactures and tests a complete range of optoelectronic devices. Epitaxy process units include LPE and MOCVD plants. The manufacturing process provides economic efficiency and reliability, combined with the most up-to-date techniques like thin-layer and quantum-well creation.

No other company in the world manufactures a complete family of LED's in the 1600 to 3000nm spectral range and only very few companies manufacture a family of semiconductor lasers of 1600 to 4600nm range. IBSG has been successful in the rapidly changing mid IR photodiodes market. They have been at the forefront in developing higher power and novel structure diodes, extending LED lifetime and stability, designing new thermo-cooled LED's, creating novel position-sensitive photodiodes, and interfacing lasers, LED's and photodiodes with optical fibre.





Standard IBSG Laser Diodes

IBSG laser diodes are available in either HHL, TO, LA or Dewar packages. Various modes, powers and wavelength options are also available.

LDXXXp-HHL – a pulsed diode in an HHL package available in the spectral range 1.6 to 2.35 μ m. The package includes thermocooler, thermoresistor, and monitor photodiode.

LDXXX-HHL – can operate in pulsed or CW regime. Supplied in an HHL package available in the spectral range 1.6 to 2.35 μ m. The package includes thermocooler, thermoresistor, and monitor photodiode.

LDXXXp-TO – operates in pulsed regime, and is supplied in an 9mm TO can. Operates with a peak power of about 50mW.

LDXXX-LA – operates in the spectral range 2.7 to 3.8 μ m, mounted in a LA-type open package, which requires cooling system.

LDXXX-DW – operates in the spectral range 2.7 to 3.8 μ m, mounted in a small Dewar to provide necessary cooling.

LDXXX-tun-LA – tunable laser diode, which operates in the spectral range 2.7 to 3.8 μ m, mounted in a LA-type open package, which requires cooling system.

LDXXX-tun-DW – tunable laser diode, which operates in the spectral range 2.7 to 3.8 μ m, mounted in a small Dewar to provide necessary cooling.

Model	Regime	Package	Mode	Wavelength	Power
LDXXXp-HHL	Pulsed	HHL	SLM	1.6 to 2.4 μ m	10mW (peak)
LDXXX-HHL	CW & pulsed	HHL	SLM	1.6 to 2.4 μ m	1 to 5mW (av.)
LDXXXp-TO	Pulsed	9mm TO	ST or MM	1.6 to 2.4 μ m	50mW (peak)
LDXXX-LA	Pulsed, CW	LA	SLM, SM	2.7 to 3.8 μ m	TBA
LDXXX-DW	Pulsed, CW	Dewar	SLM, SM	2.7 to 3.8 μ m	TBA
LDXXX-tun-LA	Pulsed, CW	LA	SLM	2.7 to 3.8 μ m	TBA
LDXXX-tun-DW	Pulsed, CW	Dewar	SLM	2.7 to 3.8 μ m	TBA