

nuvoTon

High Power LASER Diode

The World's Leading LASER Diode Partner



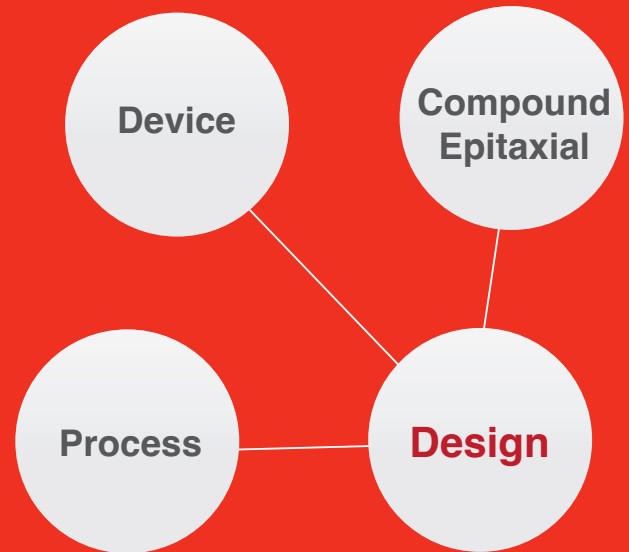
About Semiconductor LASER of Nuvoton

Nuvoton Technology Corporation Japan has been providing innovative products to the world for over 40 years as a leading company of Semiconductor LASER. We have produced and shipped cumulative over 3 billion LASER light sources for optical discs.

The wavelength range of light emitted from Semiconductor LASER is determined by the materials of which the light-emitting element is made.

We have been developing both Gallium Arsenide (GaAs)-based and Gallium Nitride (GaN)-based materials for many years and have extensive experience and expertise in Semiconductor LASER technology which emits light from the UV to the IR range.

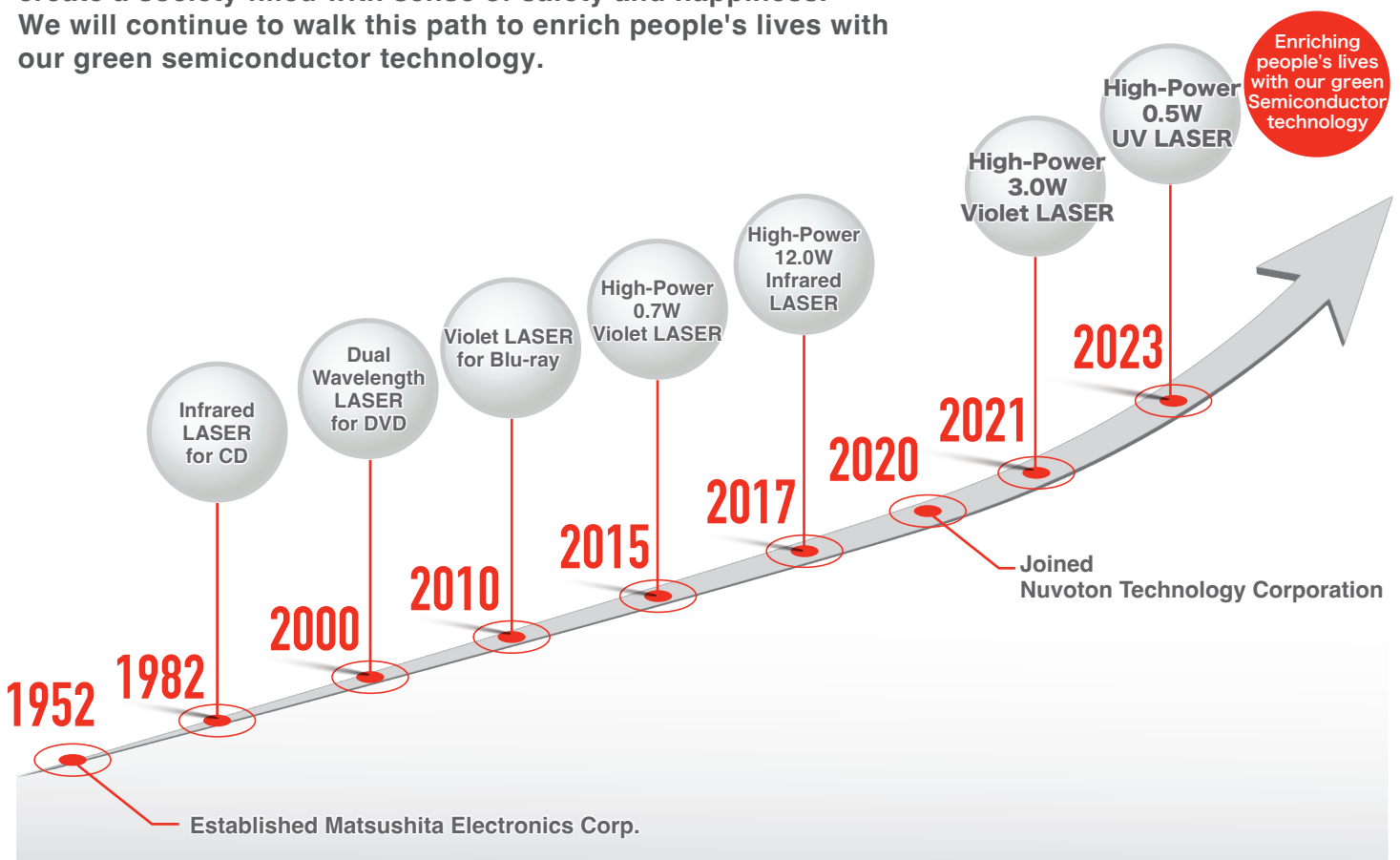
Using these technologies, we contribute to various applications.



Semiconductor LASER History of Nuvoton

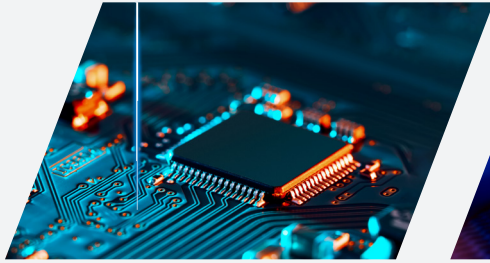
Ever since we first shipped infrared LASER diodes for CDs in 1982, we have brought out innovative semiconductor LASERs to the world in order to create a society filled with sense of safety and happiness.

We will continue to walk this path to enrich people's lives with our green semiconductor technology.

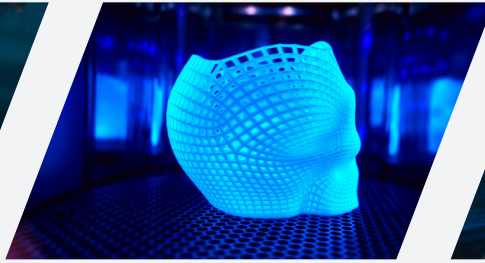


Applications of Semiconductor LASER of Nuvoton

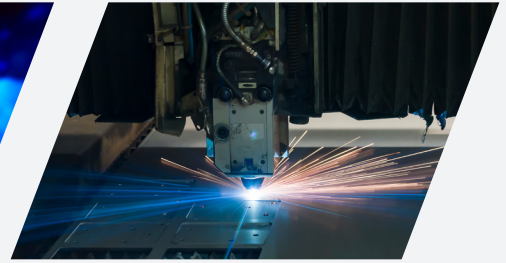
Nuvoton LASER Diodes developed based on own design, process, device, and epitaxial technology are used in various applications.



Direct Imaging



3D Printer



Material Processing



Inspection and Measurement



Biomedical



Laser Display

Product Lineup

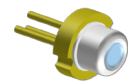
Semiconductor LASER Lineup

Transverse Mode	Part Name	Wavelength	Output Power (CW)	Package Type
Multi	KLC310FL01WW	378 nm	0.5 W	Φ 9.0 TO - CAN
Multi	KLC330FL01WW *	379 nm	> 0.8 W	Φ 9.0 TO - CAN
Multi	KLC432FL01WW	402 nm	3.0 W	Φ 9.0 TO - CAN
Multi	KLC434FL01WW *	402 nm	> 3.6 W	Φ 9.0 TO - CAN
Multi	KLC433FS01WW	402 nm	1.2 W	Φ 5.6 TO - CAN
Multi	KLC435FS01WW *	402 nm	> 1.5 W	Φ 5.6 TO - CAN
Multi	KLC420FS01WW	420 nm	1.7 W	Φ 5.6 TO - CAN
Multi	KLC421FL01WW *	420 nm	> 5.0 W	Φ 9.0 TO - CAN
Multi	KLCB0200Y2WW	445 nm	5.0 W	CoS
Multi	KLCB0300Y2WW *	445 nm	> 7.0 W	CoS
Multi	KLCB1000Y2WW *	460 nm	> 7.0 W	CoS
Multi	KLCP01FL01WW *	638 nm	> 2.4 W	Φ 9.0 TO - CAN
Single	KLC840FS01WW *	830 nm	> 0.05W	Φ 5.6 TO - CAN

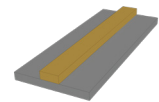
*Under development

Forms of LASER

TO-CAN



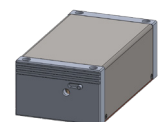
CoS (Chip on Submount)



DPSS (Diode Pumped Solid State)

Nuvoton GaN LASER pumped solid-state LASER. Compact, air-cooled, high-output power and high beam quality.

DPSS LASER



W 70 × D 125 × H 45 mm *

*Under development

Transverse Mode	Part Name	Wavelength	Output Power (CW)	Package Type
Single	DPSS* Series	260 - 720 nm	10 - 400 mW	Module

Nuvoton Technology Corporation Japan

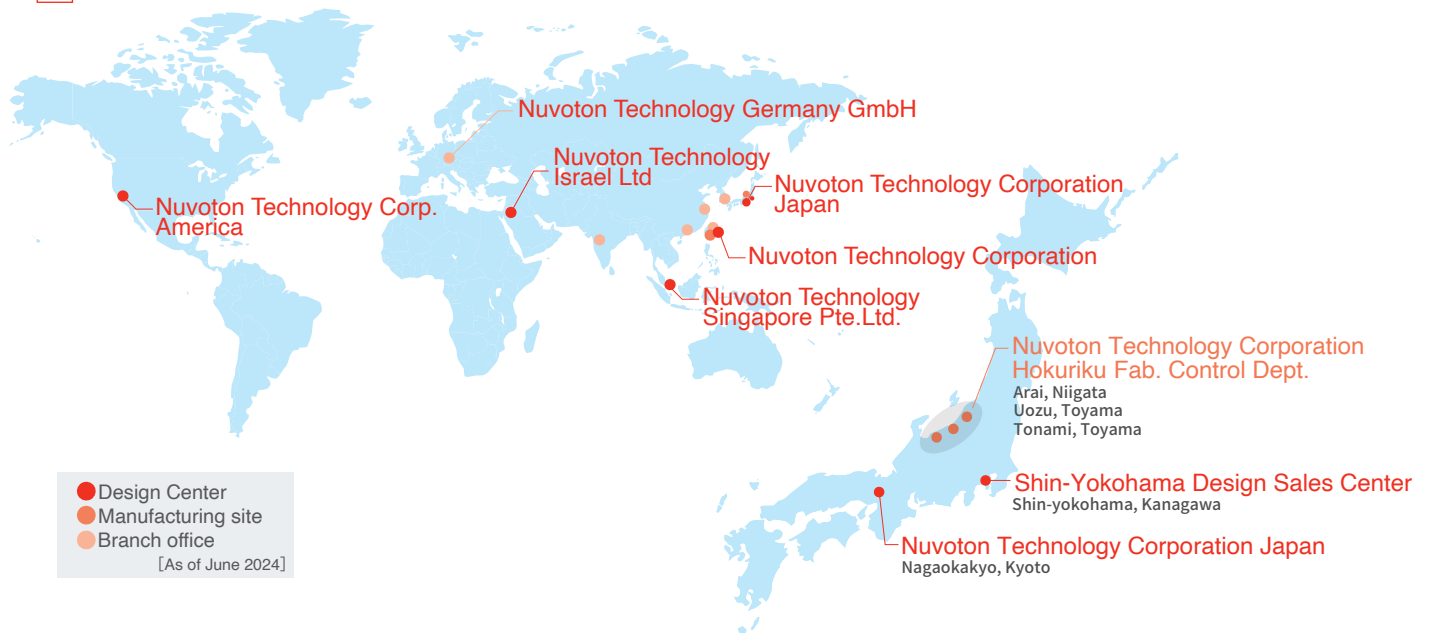


Nuvoton Technology Corporation Japan is a global semiconductor supplier with more than 70 years of experience in design and manufacturing since its establishment in 1952. We utilize our technologies to enrich people's life and to connect the society.

Quality Certification

Quality	ISO 9001:2015	Occupational Safety / Health	ISO 45001:2018
Environment	ISO 14001:2015 ISO 14064-1:2018	Security	ISO/IEC 27001:2013 ISO/IEC 15408 ISO/SAE 21434:2021

Nuvoton Business Network



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