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G20K

2 kHz KrF Excimer Laser for 0.18 μm Design Rule



The G20K features high energy stability ($\pm 0.4\%$) and a narrow spectral bandwidth (FWHM) of 0.6 pm or less to allow exposure of 0.18- μm geometries at high resolution.

G20K Main Features

- ✓ Repetition rate increased from 1000 Hz (G10K) to 2000 Hz to achieve higher throughput.
- ✓ Great enhancement of laser emission stability and module durability allows further reduction of the CoO (running cost per pulse).
- ✓ Compact size that reduces the floor footprint by 14% compared with the G10K.
- ✓ A newly designed solid-state pulse power supply allows a 20% reduction of power consumption.

Main Specification*

Wavelength	248 nm
Average Output	20 W
Pulse Energy	10.0 mj
Repetition Rate	2,000 Hz
Bandwidth (FWHM)	0.6 pm
Bandwidth (E95)	2.0 pm
Energy Dose Stability	0.4 %

(*) Each of the above specification values represents a typical value

KrF

G41K-1H (<https://www.gigaphoton.com/en/products/excimer-laser/krf/g41k-1h>)

G20K (<https://www.gigaphoton.com/en/products/excimer-laser/krf/g20k>)

G21K (<https://www.gigaphoton.com/en/products/excimer-laser/krf/g21k>)

G10K (<https://www.gigaphoton.com/en/products/excimer-laser/krf/g10k>)




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English 

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