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G42A

4-kHz ArF Excimer Laser for 80-nm Technology Node



Main Features

- ✓ Spectral bandwidth (FWHM) improved from 0.35 pm (G41A) to 0.3 pm to allow exposure of 80-nm geometries based on the G41A
- ✓ Use of highly durable parts for each module to prolong the optical module life and further reduce CoO
- ✓ Laser chamber: Use of highly durable parts for the electrodes
- ✓ Line-narrowing module, monitor module, etc.: Use of highly durable materials for the optics

Main Specification*

Wavelength

193 nm

Average Output	20 W
Pulse Energy	5.0 mj
Repetition Rate	4,000 Hz
Bandwidth (FWHM)	0.3 pm
Bandwidth (E95)	0.75 pm

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

ArF Dry

GT60A (<https://www.gigaphoton.com/en/products/excimer-laser/arf-dry/gt60a>)

GT40A (<https://www.gigaphoton.com/en/products/excimer-laser/arf-dry/gt40a>)

G42A (<https://www.gigaphoton.com/en/products/excimer-laser/arf-dry/g42a>)

G41A (<https://www.gigaphoton.com/en/products/excimer-laser/arf-dry/g41a>)



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