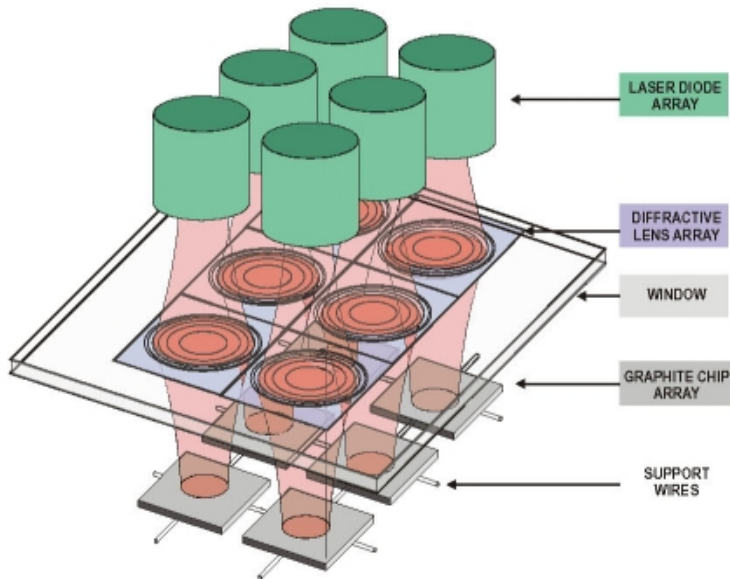


Laser Heated Infrared Emitter Array - Phase I Project Summary

Concept - Use laser diode to heat an array of high-emissivity chips to $\geq 3000\text{K}$, providing:

- Full spectral coverage
- Flickerless operation
- Simplified electrical interface



The Primary Phase I Goal - bring a single chip to a radiometric temperature of 3000K . Achieved using:

- Radiating strip of Rhenium foil
- 4W incident laser power
- $300\mu\text{m}$ spot diameter
- Argon-purged chamber

