

# Spatial Filtering Collimator for Optimized Laser Indicator and Laser Range Finder

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## Abstract

A novel spatial filtering collimator is developed for the laser indication application. The mass produced, inexpensive, red and blue semiconductor laser modulators can easily be optimized as fine line laser indicator source. We have theoretically investigated the results, simulated the designs, and measure the laser beam spots and the laser fine lines. The spatial filtering collimator is designed and optimized for practical used and the results are very satisfactory.

Keyword: Collimator, spatial filter, lens design, semiconductor lasers, laser indicator.