

Phase diffractive filter to analyze an output step-index fiber beam

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Abstract

The paper considers the use of a multi-order phase binary diffractive optical element, matched with 32 (duplicated) LP-modes of a stepped fiber with the cutoff number $V = 15$, as a filter for analyzing the light fields at the output of such a fiber.

Keywords: diffractive filter, step-index, fiber beam, multi-order phase, diffractive optical element, DOE, LP-mode, light field.

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