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"Volume Holographic Filters for 1550 nm Dense Wavelength Division Multiplexing Applications"

Raymond K. Kostuk¹, Atsushi Sato², and David Waldman³ ¹Electrical and Computer Engineering Dept, University of Arizona, Tucson, AZ 85721 Phone: 520-621-6172, FAX: 520-621-8076, kostuk@ece.arizona.edu

²Phone: 520-621-2031, atsushi@email.arizona.edu, also with Toppan Printing Company, Tokyo, Japan

³Aprilis Incorporated, Maynard, MA 01754, Phone: 978-950-1042, waldman@aprilisinc.com

Abstract:

We review the performance requirements on spectral filters for dense wavelength division multiplexing applications. The design of holographic filters formed in Aprilis ULSH Cationic Ring Opening Photopolymers (CROP) is presented. Diffraction efficiency of 80% at 1550 nm is achieved in recording thicknesses of only 100 μm .

"Photopolymer characterization and grating playback at telecommunication wavelengths"

Daniel M. Sykora, Univ. of Rochester, USA; G. Michael Morris, Corning Rochester Photonics Corp., USA.

Abstract:

The viability of holographic photopolymers for use at telecommunication wavelengths is studied. Parameters including absorption and transmission are determined, and the formation of large period gratings designed for high efficiency and infrared playback is discussed.