Thursday, September 22, 2022

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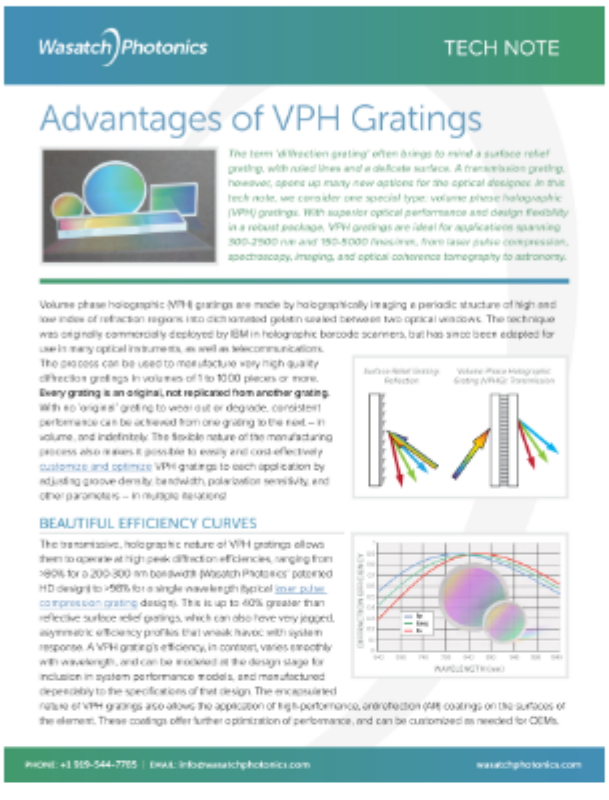

Advantages of VPH Gratings

The term 'diffraction grating' often brings to mind a surface relief grating, with ruled lines and a delicate surface. A transmission grating, however, opens up many new options for the optical designer. In this tech note, we consider one special type: volume phase holographic (VPH) gratings. With superior optical performance and design flexibility in a robust package, VPH gratings are ideal for applications spanning 300 to 2500 nm and 150 to 5000 lines/mm, from laser pulse compression, spectroscopy, imaging, and optical coherence tomography to astronomy.

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