



上海尖丰光电技术有限公司

Wasatch Photonics VPH 激光脉冲压缩光栅

产品描述：

Wasatch Photonics enhanced volume phase holographic (VPH) gratings 对于高功率超快激光的脉冲压缩以及伸展是非常好的一种选择。这是光栅是目前全球市场上最高衍射效率的光栅。获得更多的光子是我们所做的最好的，不像表面浮刻光栅，我们的光栅可以更便于操作和容易清洗。有部分光栅我们备有库存在香港，可以随时发货与此同时我们也可以接受客户的定制服务满足客户个性化的定制需求。

产品特点：

全波段高传输

- 低波前畸变，最小散射
- 全衍射均匀衍射效率
- 最小光束畸变孔径
- 高脉冲能量应用的理想选择
- 坚固的设计，便于清洗
- 最大光学设计灵活性

效率高，均匀性强，波前畸变小

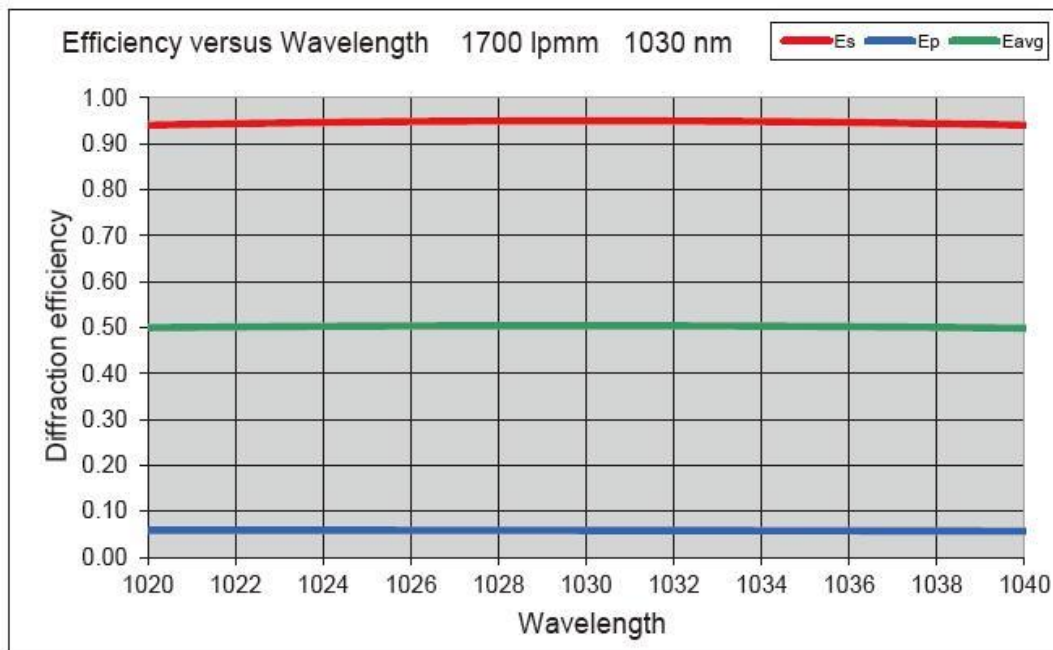
我们的体相全息光栅在性能上是无与伦比的，并且比传统的表面浮雕光栅具有更大的耐用性。我们专有的工艺将光栅结构封装在一个坚固的封装中，便于操作和清洁。许多设计师使用传输脉冲压缩腔设计，灵活，紧凑，往往折叠布局。我们均匀的效率、最小的散射和低的波前畸变确保了它们得到最短、最干净的脉冲。



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	WP-800/1030-xx	WP-1250/1030-xx	WP-1700/1030-xx
Nominal Wavelength	980 - 1080 nm	1020 - 1040 nm	1020 - 1040 nm
Peak Efficiency @ CWL	≥ 96%, s-pol	≥ 94%, s-pol	≥ 94%, s-pol
Spatial Frequency	800 ± 0.5 lines/mm	1250 ± 0.5 lines/mm	1700 ± 0.5 lines/mm
Angle of Incidence	24.3° @ 1030 nm	40.1° @ 1030 nm	61.1° @ 1030 nm
Sizes Available (-xx)	25 x 35 x 4 mm 30 x 45 x 6 mm	28 x 92 x 6 mm	30 x 90 x 6 mm
Wavefront Distortion	Standard: $\lambda/5$ rms Enhanced: $\lambda/10$ rms (@ 632.8 nm)		
Surface Quality	60-40 scratch-dig		
AR Coating	Standard: R <math>< 1.0\%</math> Enhanced: R <math>< 0.5\%</math> (over bandwidth)		

衍射效率：



We measure every transmissive VPH grating to ensure exceptional 1st order diffraction efficiency. Many other vendors report only theoretical graphs of total diffraction efficiency. This includes diffraction into other orders, and is not truly representative of actual performance.

OEM SOLUTIONS

At Wasatch Photonics, we understand the processes & metrology needed to manufacture high quality pulse compression gratings in volume, at wavelengths up to 2500 nm. We work collaboratively with our OEM partners on each design and test procedure, establishing customer-specific test fixtures at our site to reduce the burden of inbound testing at your site for guaranteed system-ready performance. Take the Wasatch VPH challenge and reduce your pulse length by up to 15%!