

全玻璃化碱金属原子气室 Alkali Metal Atomic Vapor Cell

产品介绍 Product Description

全玻璃化碱金属原子气室，气室材料为石英玻璃或高硼硅玻璃。具有高气密性、高光学平整度和高透过率，能够满足多种特殊环境的应用需求。

Alkali Metal Atomic Vapor Cell, laser welded from quartz glass or borosilicate glass, can achieve coating inside and outside the cell. It has high airtightness, high optical flatness, and high transmittance, which can meet the application needs in various special environments.

另外，我们可以根据用户不同的需求，定制气室尺寸、内外膜层材质、碱金属种类、碱金属填充模式、碱金属填充浓度等参数。

In addition, we can customize parameters such as atomic chamber size, inner and outer membrane material, alkali metal type, alkali metal filling mode and alkali metal filling concentration according to different needs.

产品特点 Product Characteristics

- ◆ 规格可定制
Specifications can be customized
- ◆ 内外镀膜，膜层透过率 $\geq 99.5\%$
Internal and external coating, film transmittance $\geq 99.5\%$
- ◆ 高气密性
High gas tightness.

应用场景 Applications

碱金属激光器 Alkali metal laser	频率校准 Frequency calibration	磁力计 Magnetometer
里德堡原子 Rydberg atom	原子陀螺仪 Atomic gyroscope	可调谐半导体 Tunable semiconductor

技术指标: Specifications

Gas cell material	The shape of cell	Length of cavity (mm)	Type of vapor
quartz glass, borosilicate glass	cylinder, cuboid, cube	10-30(cuboid, cube), 10-100(cylinder)	Rb, Cs, N ₂

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