

Isotope Rubidium 85 Reference pool (Diameter 22.68mm Length 71.2mm)



● Product Description

These flame-sealed cells contain a small amount of solid, >98% chemically pure, isotopically pure rubidium 85 (^{85}Rb) under vacuum. The concentration of rubidium in the gas phase can be controlled by heating the cell or cooling the tip stem. Operating temperatures are typically 20-80°C. Rubidium has intermittent strong absorption lines that are used to calibrate tunable lasers and wavelength meters in the range of 6540-48300 cm^{-1} (207-1529nm). They can also be used to stabilize laser frequencies by locking onto a single strong absorption line. The quartz cell body is

cylindrical; 22.68mm outer diameter; 71.2mm length. The tip stem is centered on the cell and protrudes no more than 10mm beyond the cell body. The window is angled 11° from normal and has a 2° internal wedge to prevent back reflections and etalon effects.

● Product features

High purity isotope rubidium-85; Precision dimensional control; Low relaxation rate; Wide working temperature range; long-term stability

● Part Number

MP-OGC-Rb-22.68-71..2

● Application area

Atomic clock | Quantum precision measurement | Magnetometer | Atomic interferometer | Basic physics research

● Core parameters

Diameter	Length
22.68mm	71.2mm



● Dimension Drawing

