

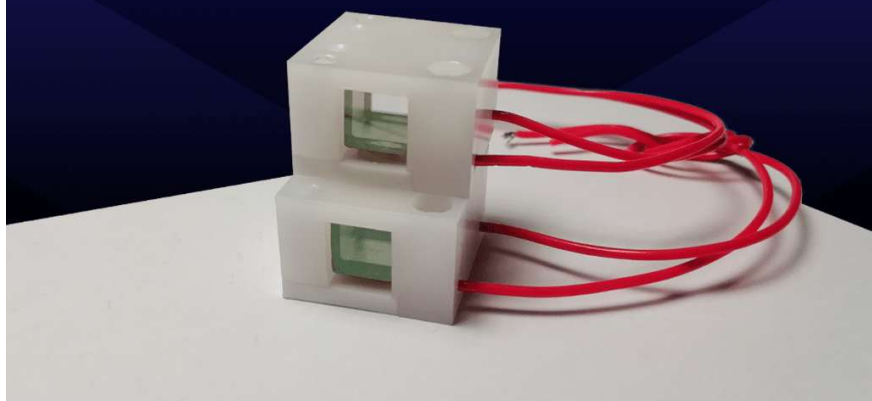
DKDP – Pockels cells

PRODUCTS FILTER



POCKELS CELLS

DKDP



Pockels cells utilizing [DKDP](#) crystals are among the most popular choices on the market.

Deuterated potassium dihydrogen phosphate (DKDP) provides excellent transmission from 390 nm to 1400 nm ($0.39\ \mu\text{m} - 1.4\ \mu\text{m}$), and its high electro-optical coefficients make it ideal for Pockels cell applications.

To achieve an effective electro-optical response, highly deuterated [DKDP](#) ($D > 97\% - 98\%$) is essential. The high laser-induced damage threshold is ensured by applying specialized anti-reflective coatings on this hygroscopic crystal.

The 3photon standard DKDP Pockels cells feature a longitudinal electro-optic modulation configuration.

With no enter-exit windows, 3photon Pockels cells minimize light losses. These cells are lightweight, well-protected with durable anti-reflection coatings, and designed for easy installation.

Features

PRODUCTS FILTER

Our cells are crafted from [DKPD](#) crystals with very high laser-induced damage thresholds (LIDT).

[DKPD](#) crystals are securely protected by tight isolation, safeguarding both the crystal from environmental exposure and protecting laser electronics and personnel.

3photon engineers are capable of manufacturing cells in nearly any size, enabling faster and simpler installation compared to most market options.

We utilize direct bonding of wires to the crystal, a departure from the common market approach of placing conductive connectors outside the crystal volume.

In place of protective windows, our coating engineers have applied anti-reflective (AR) coatings to shield the crystal and minimize light losses.