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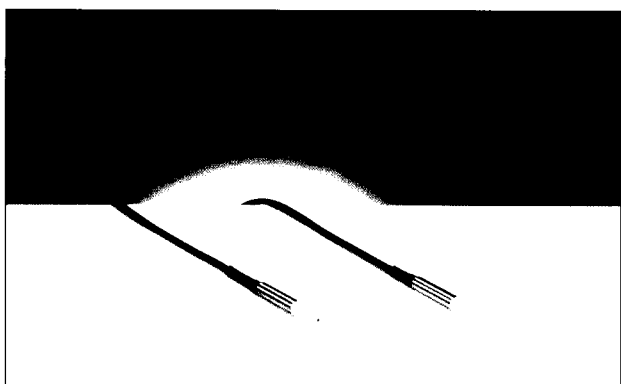
RPD Product Information

Item Number Description

300-681-BNC-M PTW 60008 - Dosimetry Diode

300-682 Photon/Electron Dosimetry Diode-PTW 60012

Dosimetry Diodes



Waterproof p-type Si diode detectors for dose distribution measurements in high-energy photon and electron beams

Features

- ✦ Extremely small sensitive volume of $1 \text{ mm}^2 \times 2.5 \text{ }\mu\text{m}$
- ✦ Suitable for dose scanning in stereotactic and IMRT fields because of the superior spatial resolution
- ✦ Suitable for use in a remote controlled water phantom

The Dosimetry Diodes are p-type Si diode detectors designed for dose distribution measurements in high-energy photon and electron beams. Applications are IMRT, stereotactic beams, brachytherapy and water phantom scanning. The Dosimetry Diodes feature an extremely small sensitive volume shaped as a disk with an area of 1 mm^2 and a thickness of only $2.5 \text{ }\mu\text{m}$. This makes it possible to use the Dosimetry Diodes in small beams and to perform data acquisition with a very good spatial resolution. Because of the favorable signal-to-noise ratio, the Dosimetry Diodes are suitable for high precision dose distribution measurements. Since the Dosimetry Diodes are waterproof, they can be used in water phantoms without additional protective sleeves. The nominal useful photon energy range is ^{60}Co up to 25 MV. The electron energy range of Diode model 60012 is 3 MeV to 25 MeV. After calibration by the user in comparison with a calibrated therapy chamber, the Dosimetry Diodes can be used for absolute dosimetry. They have a short stem for mounting to a water phantom mechanism and a flexible connection cable of 1.5 m in length to be connected to a dosimeter. The cable can be supplied with different connector types. The Dosimetry Diodes are to be irradiated in axial direction.

Ordering Information

Dosimetry Diodes, connecting system BNT, TNC or M:

60008 Dosimetry Diode P for photons

60012 Dosimetry Diode E for electrons and photons