

## **Application of PIN Diode for Pulse X-ray Detector in TPF-II Plasma Focus Device**

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Precision diagnostics of X-ray density and energy in the plasma focus device need high-speed devices which are very complicated and expensive. The multiple PIN diodes, a cost effective light detector, can be used to detect the pulse X-ray which are produced by the TPF-II, a 3.3 kJ dense plasma focus. The detectors are covered by difference thickness and type of X-ray filter materials such as alumina and Mylar in order to prevent the effect of visible light and decrease the X-ray intensity. The experimental data is compared with the simulation data to estimate the X-ray energy.

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