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High-power photodetector module for 0–16 GHz frequency range

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The paper presents the development of a high-power microwave photodetector module for use in radio-over-fiber systems. The module supports both the 1.31 and 1.55 μm optical wavelengths. The photodetector module has a hermetic sealed housing. The operating frequency range of the device is from 0 to 16 GHz. A high-power indium phosphide photodiode was used to manufacture the module. The photodiode provides a maximum input optical power of more than 60 mW at a sensitivity of 0.8 A/W.

Keywords: high-power photodetector, photodiode, indium phosphide.

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