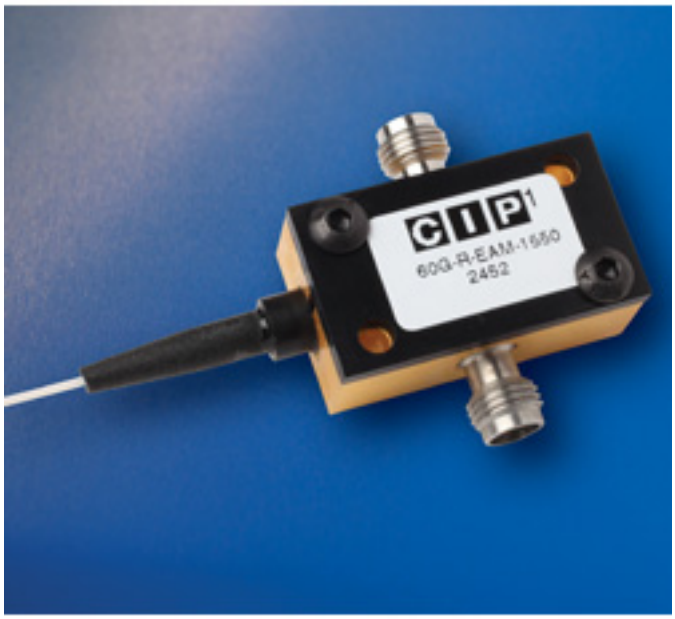
Worlds First 60 GHZ Reflective Electro-Absortion Modulator



CIP Technologies, a company with a long history of photonics innovation, has released a combined modulation and photodetection transducer capable of working at up to 60 GHz - a world first.
The new reflective electro-absorption modulator (R-EAM) meets customer needs for a low insertion loss, low drive voltage optical modulator in applications such as remote antennas and radio-over-fibre. The product is particularly significant for those interested in the 28 GHz LMDS (Local Multipoint Distribution Service) band, as well as experimental and research work in bands up to 60 GHz. The combination of modulation and photodetection in a single device means that both up and down links can be duplexed over a single fibre, leading to significant cost reductions and capacity improvements for network operators.

The device, 60G-R-EAM-1550, has an insertion loss of only 3.6 dB and provides digital optical modulation at 50 Gbit/s and RF modulation over its 60 GHz bandwidth. It operates across the 1550 nm C-band with a low chirp parameter, and is intended for use with a laser diode source. The photodetection capability is state of the art, providing 1.0 A/W responsivity and 43 GHz bandwidth.

The standard package with RF connectors is suitable for use with external RF components and drivers; customer-specified variants of the product can be provided on request. Please contact CIP for pricing and availability information: www.cipphotonics.com

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About CIP Technologies

CIP Technologies is the trading name of The Centre for Integrated Photonics Ltd, a world-renowned developer of advanced photonic hybrid integrated circuits and InP-based opto-electronic chips, devices, arrays and modules for the communications, defense and renewable energy markets. With integrated state-of-the-art research, fabrication, coating, test, validation and production facilities, as well as strategic partnerships with volume packaging providers, CIP Technologies develops the photonic products of tomorrow. CIP Technologies' uniquely broad range of competencies is based on world-renowned research, and includes III-V photonic materials, silicon micromachining, planar silica waveguides and network architecture design and analysis. For more information visit www.cipphotonics.com [1]

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