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Contact: Karen Kinsman

Press Release

EPITAXX ANNOUNCES AVAILABILITY OF LOW BACK REFLECTION PHOTODIODES FOR ANALOG VIDEO AND INSTRUMENTATION

EPITAXX offers a modified version of its standard pigtailed photodiode which reduces back reflection into the singlemode fiber pigtail - the ETX75FJ-SLR. Typical reflection measured at the fiber is -45 dB; a higher performance version, to be released in April, will yield reflection losses of -55 dB.

Optical and electrical characteristics of the low-reflection device are the same as those of the standard pigtailed photodiode. Dimensions, whether 900 um buffered fiber (FJ) or 3.0 mm cabled fiber (FC), are the same as those of EPITAXX cabled-fiber pigtailed (ETX75FC) photodiodes. EPITAXX will provide the ETX75FJ-SLR with a low back reflection connector, such as the FC/Super PC (-44 dB) or other connector.

Reduced reflection devices are especially important in analog video transmission systems or in precision laboratory instruments. Low back reflection photodiodes limit distortion, malfunction, or destruction of the laser diode resulting from reflections. EPITAXX InGaAs photodiodes have high linearity over a wide dynamic range insuring low distortion receiver characteristics. In many applications they are favored over APDS which require high bias voltage and are higher cost.

EPITAXX developed the low back reflection device to respond to the needs of manufacturers of analog video systems. EPITAXX is the largest supplier of fibered photodiodes to the CATV market; it has supplied over 5000 devices alone to the French PTTs CATV fiberoptic project.

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Dimensions:

