



## *ANNOUNCEMENT*

# (4-5) $\mu\text{m}$ and 8 $\mu\text{m}$ ISOLATORS



now in production at **InnPho**

Users of Quantum Cascade Lasers know that feedback can and often does disrupt applications of QCLs, and in some cases can damage the laser.

The only device that stops feedback is the **optical isolator**. In practice, the laser beam passes through the isolator and from there outward into the application. There, reflections of the laser beam return backward toward the laser. However, the isolator stops the feedback, thus leaving the laser free of its annoying effects.

Two very active QCL wavelength clusters are around (4-5)  $\mu\text{m}$  and around 8  $\mu\text{m}$ . At **InnPho** we have completed development of isolators for both wavelengths and are now in production.

<b>Catalog Number</b>	<b>Aperture</b>	<b>Center Wavelength</b>	<b>Transmittance</b>	<b>Isolation</b>
FIO-5-4/5	4.5 mm	4.6 $\mu\text{m}$ *	$\leq 90\%$	$\leq 30$ dB
FIO-5-8.0	4.5 mm	8.0 $\mu\text{m}$ **	$\leq 90\%$	$\leq 30$ dB

\* Tunable 4.3  $\mu\text{m}$  to 5.2  $\mu\text{m}$

\*\* Tunable 7.5  $\mu\text{m}$  to 8.5  $\mu\text{m}$