



For immediate release

NKT Photonics A/S introduces new pulse amplifier fiber DC-135-15-PM-Yb

Improved double clad fibers based on industry proven CRYSTAL FIBRE technology

Birkerød, Denmark, June 18th 2009 – NKT Photonics A/S has introduced a new version of its CRYSTAL FIBRE series double clad fiber. The DC-135-15-PM-Yb fiber is made with CRYSTAL FIBRE patented airclad technology and features low photodarkening. The polarization maintaining Ytterbium fiber is typically used in fiber amplifier configurations for pulsed laser amplification.

For years, the fiber community has turned to CRYSTAL FIBRE for state-of-the-art solutions for high performance fiber amplifiers. Now, NKT Photonics is releasing an easy to use fiber for kW peak power fiber amplifiers. The DC-135-15-PM-Yb fiber features a 16 micron mode field diameter Ytterbium core, which is polarization maintain with a polarization extinction ratio better than 18 dB. The 135 micron pump core diameter accepts pump light at numerical aperture values up to 0.6 for pumping at 915 or 976 nm. Pump absorption is 8 dB/m for 976 nm pumping.

The DC-135-15-PM-Yb fiber is designed for OEM use for industrial customers manufacturing fiber amplifiers. A signal-feedthrough fused fiber combiner for reverse pumping of the DC-135-15-PM-Yb is in development, planned for release beginning of 2010. The combiner will have standard pump and signal fiber interfaces for easy mating with single emitter pumps and fiber pigtailed seed sources/output isolators.

Currently, the DC-135-15-PM-Yb fiber is available from stock – as bare fiber, endsealed and cleaved fiber, PM 980 pigtailed fiber or connectorized fiber.

The CRYSTAL FIBRE double clad fiber series includes the DC-70-11-PM-Yb, DC-105-11-PM-Yb, DC-135-15-PM-Yb, DC-200-40-PZ-Yb-01, DC-200-70-PM-Yb-ROD, and DC-200-85-Yb-ROD fibers. The products will be displayed at the Laser show in Munich (booth # C1.302) where more details will be available.

About NKT Photonics A/S

NKT Photonics A/S - formed by the merger between Koheras A/S and Crystal Fibre A/S - designs and manufactures commercial and industrial class specialty microstructured fibers and high power fiber amplifiers. The company also designs and manufactures fiber-based industrial systems such as white light lasers and ultra precise DFB fiber lasers. The mentioned products are produced under the brand names CRYSTAL FIBRE, *aeroLASE*[™], SuperK[™] and KOHERAS[™]. These systems are already commercially deployed in material processing, bio-photonics, metrology, optical sensors, coherent communications, test and measurement, high resolution spectroscopy and LIDAR markets. NKT Photonics A/S is wholly owned by the Danish industrial conglomerate NKT Holding A/S.

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