

Nufern 780 nm Select Cut-Off Single-Mode Fiber

Nufern's 780-HP high-performance select cut-off single-mode fiber is optimized at near IR wavelengths. This application-specific fiber was developed for applications requiring coupler generation, diode pigtails and unique delivery needs for the near IR continuum. Compared to the best fibers available today, 780-HP fiber features higher proof test levels and tighter second mode cut-off tolerance. These features result in higher strength, increased component reliability, improved production yields and reduced costs for component manufacturers.

Typical Applications

- Couplers
- Diode pigtails

Features & Benefits

780-HP

- Superior fiber geometrical tolerances Improved connectorization and coupling performance
- Extremely tight second mode cutoff tolerance Enhanced component reproducibility
- Higher proof test level Greater reliability for tight bend applications

Optical Specifications

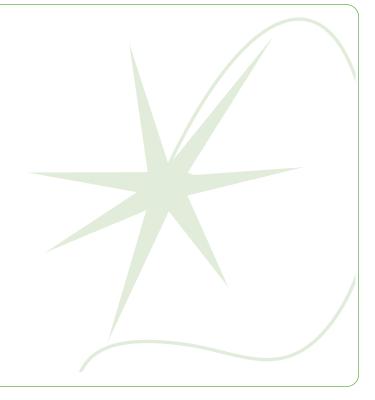
Operating Wavelength (nominal) Mode Field Diameter (1/e² fit - near field) Second Mode Cut-Off Attenuation (nominal) Attenuation Numerical Aperture (nominal) Bend Loss for 100 turns @ 13 mm radius Bend Radius for 0.05 dB per 100 turns

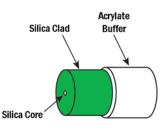
Geometrical & Mechanical Specifications

Clad Diameter Coating Diameter Core-Clad Concentricity Coating/Clad Offset Coating Material Operating Temperature Short-Term Bend Radius Long-Term Bend Radius Proof Test Level

780 - 970 nm 5.0 ± 0.5 μm @ 850 nm 730 ± 30 nm 4 dB/km @ 780 nm < 3.5 dB/km @850 nm 0.13 < 0.001 dB @ 780 nm Less than LTBR @ 780 nm

 $\begin{array}{l} 125.0 \pm 1.5 \ \mu\text{m} \\ 245 \pm 15 \ \mu\text{m} \\ < 0.5 \ \mu\text{m} \\ \leq 5 \ \mu\text{m} \\ \text{UV Curable, Dual Acrylate} \\ -55 \ \text{to} \ +85^\circ \ \text{C} \\ \geq 6 \ \text{mm} \\ \geq 13 \ \text{mm} \\ \geq 200 \ \text{kpsi} \ (1.4 \ \text{GN/m}^2) \end{array}$







PHOTONIK (SINGAPORE) PTE LTD

German Center #04-102, 25 International Business Park, Singapore 609916 Tel:+65-65627838 Fax:+65-65627839 Email:sales@photonik.com.sg Web:www.photonik.com.sg RoHS