

PM Matching Birefringence Fiber 1310nm

Applications

- Pigtail to LiNbO3 FOG chip (IOC)
- Polarization maintaining fused-fiber couplers
- Polarization-sensitive components
- High performance transmission laser pigtails
- Polarization-based sensors

Characteristics

- Excellent birefringence matching properties
- Excellent polarization maintaining properties
- Excellent polishing properties
- Tight geometric tolerances
- Low bending-induced attenuation
- Tight tolerance, dual-layer, and UV-Acrylate coating
- High environmental stability and reliability



Specifications

Part Number	110A-250	110C-165	110C-250
Optical Properties			
Operating Wavelength (nm)	1310	1310	1310
Cut-Off Wavelength (nm)	1100 - 1290	1100 - 1290	1100 - 1290
Mode Field Diameter (μm)	6.5 ± 1.0	6.0 ± 1.0	6.0 ± 1.0
Attenuation (dB/km)	≤ 1.0	≤ 0.6	≤ 0.6
Beat Length (mm)	4.0 - 6.0	2.5 - 4.0	2.5 - 4.0
Typical Cross Talk at 4m (dB)	≤ -30	≤ -30	≤ -30
Cross Talk at 100m (dB)	≤ -25	≤ -25	≤ -25
Geometric Properties			
Cladding Diameter (μm)	125.0 ± 1.0	80.0 ± 1.0	125.0 ± 1.0
Coating Diameter (μm)	245.0 ± 7.0	170.0 ± 7.0	245.0 ± 7.0
Cladding Non-Circularity (%)	≤ 1.0	≤ 1.0	≤ 1.0
Core Concentricity Error (μm)	≤ 1.0	≤ 1.0	≤ 1.0
Coating Type	Dual-layer/UV-Acrylate	Dual-layer/UV-Acrylate	Dual-layer/UV-Acrylate
Environmental and Mechanical			
Operating Temperature Range ($^{\circ}\text{C}$)	-45 to +85	-45 to +85	-45 to +85
*Proof Test Level (kpsi)	0.70 GN/m ² (100 kpsi)	0.70 GN/m ² (100 kpsi)	0.70 GN/m ² (100 kpsi)