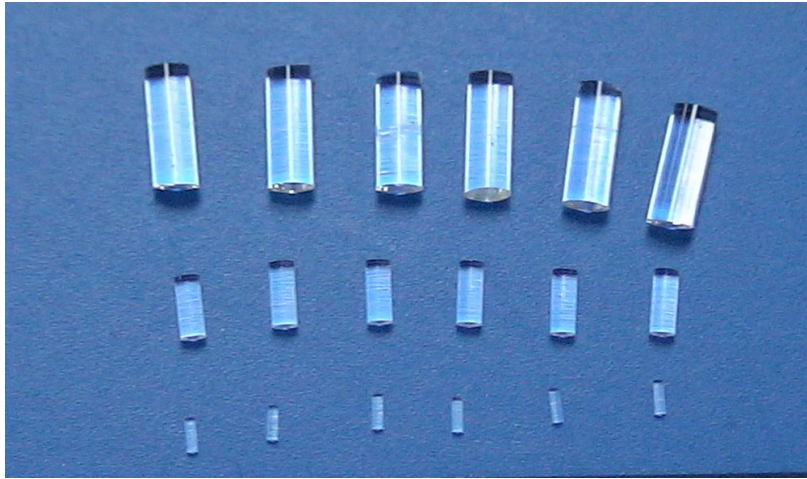


# Grin-lens

## --- Focused & Collimated Lens



### Feature

Low insertion loss  
Compactness  
High reliability & stability

### Application

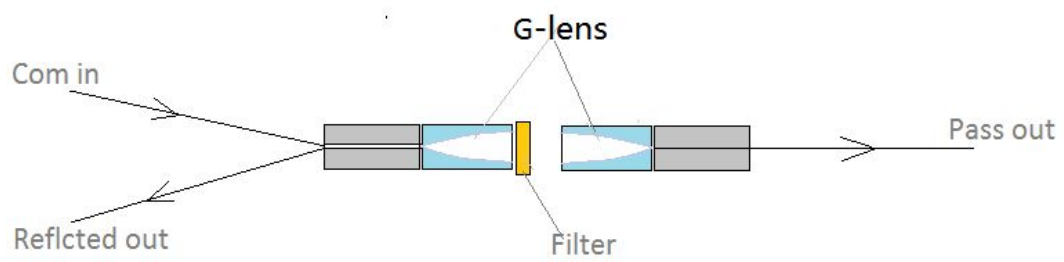
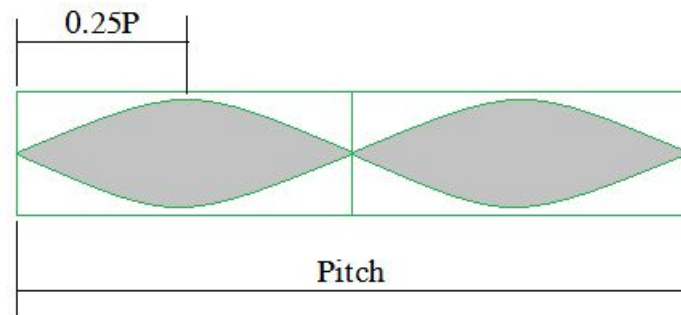
Fiber collimator  
Fiber components  
Optical intergrade module

### ● Performance Specifications

Item		Specifications	Notes
<b>Optical Characteristics</b>			
Insertion Lose		≤ 0.25dB	P grade ≤ 0.20dB
Transmittance	$\beta$	> 89%	Wavelength Range 380nm~2000nm
Refractive Index	N <sub>o</sub>	1.5906	@1500nm
Lens Effective Diameter	d	60-70% lens diameter	For low loss and low aberration
Index Gradient Constant	$\sqrt{A}$	0.320	Lens Diameter is 1.8mm
$\sqrt{A}$ Tolerance		±0.75%	Within same ion exchange batch
		±2.5%	Between ion exchange batches
Numerical Aperture	NA	0.46	Lens Diameter is 1.8mm
Pitch	P	19.6349	$P=2\pi/\sqrt{A}$
<b>Mechanical Characteristics</b>			
Lens Diameter Tolerance		+0.005/-0.010 mm	
Lens Length Tolerance		0/-0.04 mm	
End Face Angle		8°±0.5°	
Ellipticity		3 μ m	
End Face Perpendicularity		6mrad	
Thermal Expansion Coefficient		10X10 <sup>-6</sup> /°C	
Temperature		350°C	Max operating temp.for lens material
Humidity		65%—85% HR	Store in desiccant to avoid moisture

Remark: 1. The reliability test conformed the Telcordia GR-1221-CORE.  
2. Specifications exclude connector.

- Type drawing



- Contact Information

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