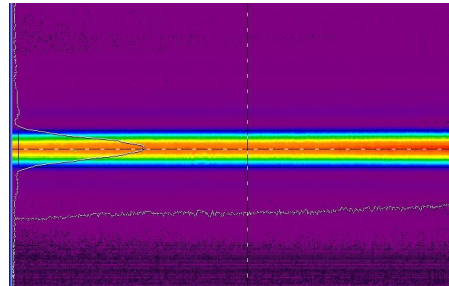
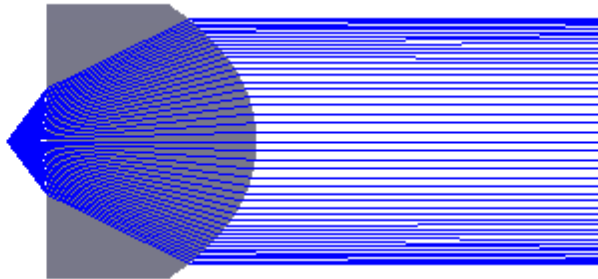




doric™ acylindrical FAC lens design 01 - long working distance

The Fast-Axis Collimation of laser diodes and laser diode bars requires lenses with aberration-free performance at extremely high numerical aperture. With the recent fine tuning and advancement of our acylindric lens manufacturing technology, we are now proudly offering sidelobes-free FAC lens for NA of up to 0.80. Our cylindrical and acylindric lenses are already well-known for its excellence, but with the latest product quality improvements we believe that we are offering the highest quality FAC lens available on the cylindrical microlens market right now.

WEBCODE:	D141-xxx
LENS DRAWING	



SPECIFICATIONS	SYMBOL	VALUE				
Part number		D141-363	D141-362	D141-361	D141-360	D141-356
Lens Type		ACYLINDRICAL				
Material		S-TIH53				
Design Wavelength	λ_0	808 nm				
Operating Wavelength	λ_0	750 - 1100 nm				
Effective focal length	EFL	0.900 mm	0.590 mm	0.512 mm	0.320 mm	0.275 mm
Working distance	WD	0.228 mm	0.150 mm	0.130 mm	0.081 mm	0.070 mm
Diffraction Limited Divergence *	DIV	1.11 mrad	1.70 mrad	1.95 mrad	3.13 mrad	3.64 mrad
Lens Height	H	1.60 +/- 0.040 mm	1.05 +/- 0.030 mm	0.91 +/- 0.030 mm	0.570 +/- 0.015 mm	0.490 +/- 0.010 mm
Central Thickness	CT	1.22 +/- 0.040 mm	0.80 +/- 0.030 mm	0.70 +/- 0.030 mm	0.435 +/- 0.015 mm	0.375 +/- 0.010 mm
Length	L	custom +/- 0.05 mm				
Focal length tolerance	ΔEFL	+/- 3 %				
Numerical aperture	NA	0.80				
Collimated power within angle	P	> 80% within 1.15 x DIV > 85% within 1.30 x DIV				
AR coating	AR	2S-NIR : broad band AR coating (R < 0.5% @ 790 - 1000 nm)				
Note		other size and custom AR coating are available upon request side or bottom tabs are available upon request				

* assuming 1 μ m height emitter

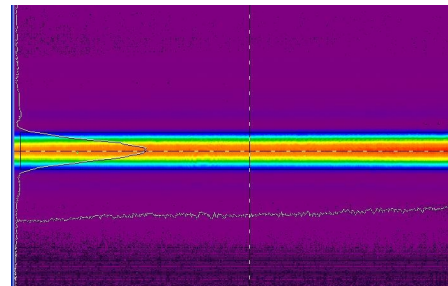
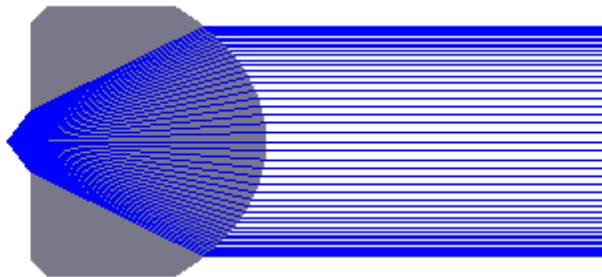
PRELIMINARY SPECIFICATION, SUBJECT TO CHANGE WITHOUT NOTICE



doric™ acylindrical FAC lens design 02 - short working distance

The Fast-Axis Collimation of laser diodes and laser diode bars requires lenses with aberration-free performance at extremely high numerical aperture. With the recent fine tuning and advancement of our acylindric lens manufacturing technology, we are now proudly offering sidelobes-free FAC lens for NA of up to 0.80. Our cylindrical and acylindric lenses are already well-known for its excellence, but with the latest product quality improvements we believe that we are offering the highest quality FAC lens available on the cylindrical microlens market right now.

WEBCODE:	D141-xxx
LENS DRAWING	



SPECIFICATIONS	SYMBOL	VALUE				
Part number		D141-759	D141-758	D141-757	D141-756	D141-755
Lens Type		ACYLINDRICAL				
Material		S-TIH53				
Design Wavelength	λ_0	808 nm				
Operating Wavelength	λ_0	750 - 1100 nm				
Effective focal length	EFL	0.900 mm	0.590 mm	0.512 mm	0.320 mm	0.275 mm
Working distance	WD	0.132 mm	0.086 mm	0.075 mm	0.047 mm	0.040 mm
Diffraction Limited Divergence *	DIV	1.11 mrad	1.70 mrad	1.95 mrad	3.13 mrad	3.64 mrad
Lens Height	H	1.60 +/- 0.04 mm	1.050 +/- 0.030 mm	0.910 +/- 0.030 mm	0.570 +/- 0.015 mm	0.490 +/- 0.010 mm
Central Thickness	CT	1.40 +/- 0.04 mm	0.920 +/- 0.030 mm	0.800 +/- 0.030 mm	0.500 +/- 0.015 mm	0.430 +/- 0.010 mm
Length	L	custom +/- 0.05 mm				
Focal length tolerance	ΔEFL	+/- 3 %				
Numerical aperture	NA	0.80				
Collimated power within angle	P	> 80% within 1.15 x DIV > 85% within 1.30 x DIV				
AR coating	AR	2S-NIR : broad band AR coating (R < 0.5% @ 790 – 990 nm)				
Note		other size and custom AR coating are available upon request side or bottom tabs are available upon request				

* assuming 1 μ m height emitter

PRELIMINARY SPECIFICATION, SUBJECT TO CHANGE WITHOUT NOTICE