

Fiber Coupler

Monolithic solution for Infrared applications



Features and Advantages

Coupler for pumping DPSSL (Diode pumped solid state laser).

Product Specifications

Product Code	ZLE002315 ⁽¹⁾	
Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Length (L)	mm	2.0 ± 0.05
Width (W)	mm	2.0 ± 0.05
Thickness (T)	mm	3.02 ± 0.02
Position of optical axis from the edge side A	mm	0.748 ± 0.05
Position of optical axis from the edge side B	mm	1.0 ± 0.05
Clear Aperture (A _i x A _w)	mm ²	0.75 x 0.75
Numerical Aperture (NA) ⁽²⁾		FA:0.7; SA:0.23
Refractive Index @ 808 nm		1.823
Distance Emitter Facet to Coupler (WD _d)	mm	0.13
Distance Coupler to Fiber (WD _f)	mm	2.12
Effective Focal Length (EFL)@ 808 nm	mm	FA: 0.13; SA: 0.96
AR Coating	nm	785 - 810
Transmission	%	> 99
Coupling Efficiency in target plane 120µmx120µm ⁽³⁾	%	> 84
Surface Imperfections (DIN ISO)	10110-7	5/ 8x0.01; C5x0.063; L2x0.016; E0.2

⁽¹⁾ Example for customization – customized coating and design on request.

⁽²⁾ For an emitter width of 100 µm.

⁽³⁾ rectangular area of analysing coupling efficiency.

Product Drawing

