

# Coupler for Pump Application

Product number: ZLE000420



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## General Description:

## | Advanced Optical Solutions |

Monolithic beam shaping and focussing optic for efficient light coupling of a single emitter (TO-can) into a crystal (for pump application).

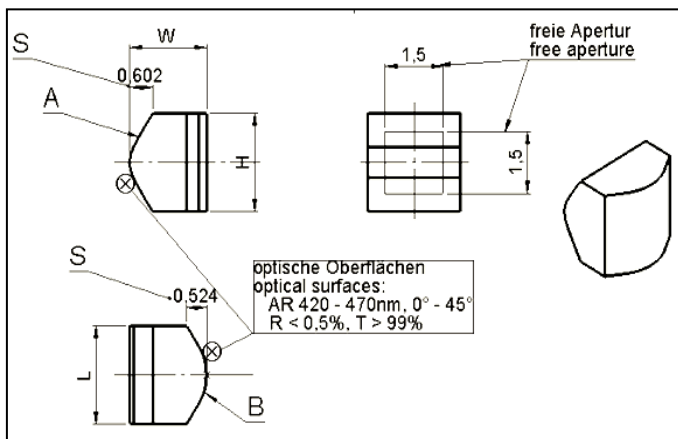
The coupler is designed to be mounted in front of a single emitter, which is mounted in a TO-can housing.

## Specification Data

	Unit	Value
Material		S-LAM52 (Ohara)
Length (L)	mm	2.4 ± 0.1
Height (H)	mm	2.4 ± 0.1
Width (W)	mm	2.0 + 0/- 0.1
Clear aperture	mm <sup>2</sup>	1.5 x 1.5
Surface quality @ 633 nm		λ/4 (typically)
Max. numerical aperture (NA)	1/e <sup>2</sup>	FA: 0.5 SA: 0.12
Distance Emitter Facet - Coupler	mm	1.2
Distance Coupler - Crystal	mm	7.0
Refractive index n @ 445 nm		1.739
Effective focal length (EFL) @ 445 nm	mm	FA: 1.047 SA: 1.752
Standard coating - AR	nm	420 - 470
Transmission	%	> 99
Typical coupling efficiency	%	> 90
- Pump spot size: approx. 15 ± 5μm FW1/e <sup>2</sup>		
- Emitter data:		
- Slow axis 14 μm, NA 0.12		
- Fast axis 2 μm, NA 0.33		

## Options

Customized coating



**RoHS compliant**  
2002/95/EG

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