

# Monolithic Fiber Coupling Optics for Mini-Bars



## General Description:

| **Advanced Optical Solutions** |

Monolithic fiber coupler for the efficient coupling of the light output of mini-bars with 10 emitters into fibers with core diameter of 600 µm or larger and NA of 0.22 or larger.

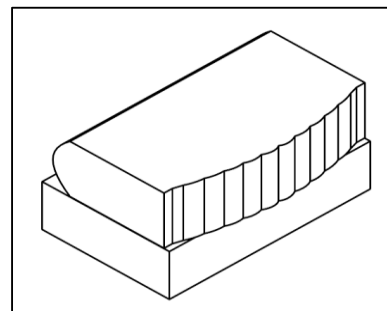
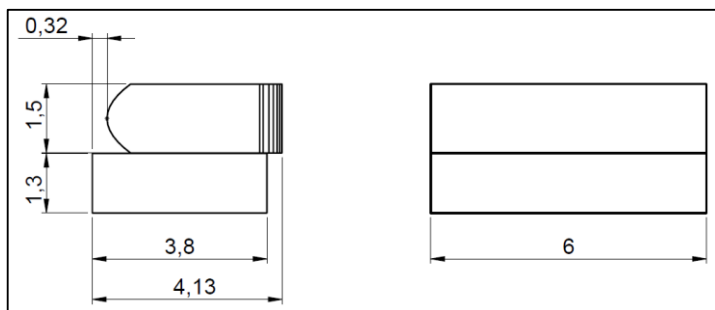
Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Length (L)	mm	6.0 ± 0.1
Width (W)	mm	1.5 ± 0.1
Thickness (T)	mm	3.81 ± 0.05
Clear aperture	mm <sup>2</sup>	5.0 x 1.2
Surface quality @ 633 nm		λ/4 (typically)
Max. numerical aperture (NA)		FA: 0.5 SA: 0.08
Distance emitter facet - coupler	mm	0.4
Distance coupler - fiber	mm	11.8
	mm	11.45
	mm	11.45
Transmission	%	> 99
Typical coupling efficiencies (for uncoated fibers)		
10 emitters (width: 90µm); Fibre φ = 600µm, NA 0.22	%	90
10 emitters (width: 90µm); Fibre φ = 800µm, NA 0.22	%	92

## Matrix of Product Codes

AR-coating	without Bottom Tab	with Bottom Tab
790 - 990 nm, R<0.5%	ZLE001723	MOD000399
600 - 700 nm, R<0.5%	ZLE001674	MOD000581

## Options

Customized coating



**RoHS compliant**  
2002/95/EG

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