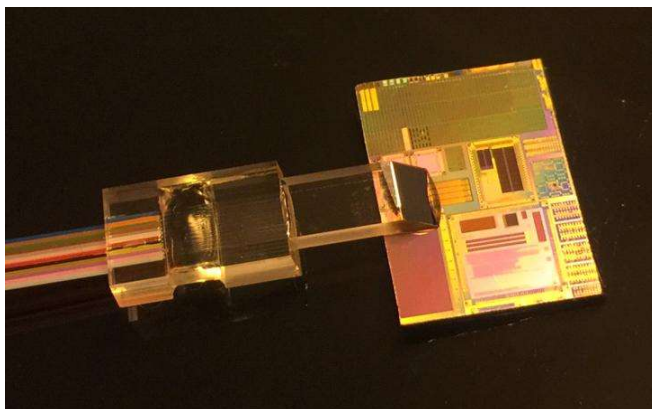


DESCRIPTION



The Top-Coupling Waveguide Array to Fiber Transposer (TC-WAFT) is the must-have PIC-to-fiber solution for a low-footprint, low-profile injection into grating couplers. It is perfectly suitable for PIC packaging and wafer-level testing.

Thanks to its **ioNext platform** (Photonics Integrated Circuits on glass), TEEM offers a whole range of bare and pigtailed TC-WAFT products, with user-defined port number, output pitch and output mode size.

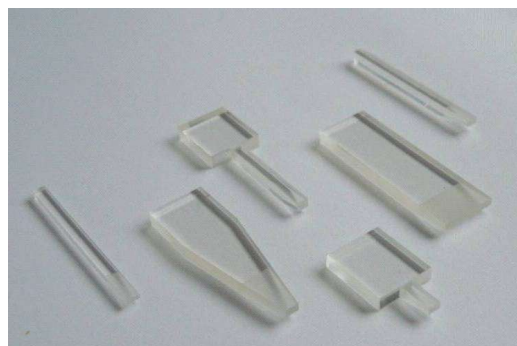
KEY FEATURES

Number of ports	< 32	[32 – 96]	[96 -256]
Max Insertion Loss * (dB)	0.7	0.9	1.1
Insertion Loss Uniformity * (dB)	< 0.2	< 0.3	< 0.3
Max Polarization Dependent Loss (dB)	0.1	0.2	0.2
Max Adjacent Crosstalk (dB)	-30	-30	-25
Output Mode Size @1550nm (μm @ $1/e^2$)	10		
Minimum Output Pitch (μm)	20		
Outputs Positioning Relative Accuracy (μm)	+/- 0.05		+/- 0.1
Polarization Extinction Ratio (dB)	> 25		
Operating wavelength (nm)	1200 - 1700		

OPTIONS

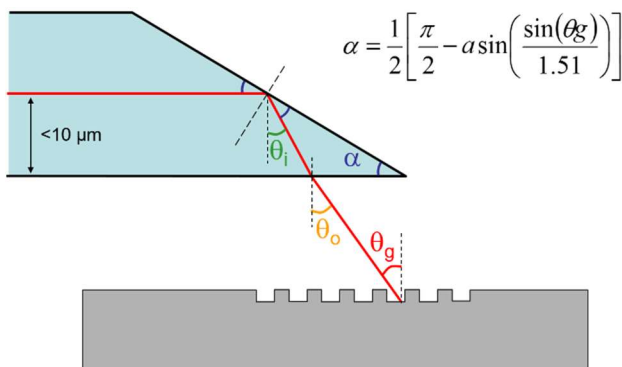
- Fibre connection
 - SM or PM fibres
 - FC, SC, ST, LC or MPO connectors
- Custom chip designs :
 - Variable output pitches
 - Additional optical functions (taps, splitters...)

- Custom chip dimensions and shaping

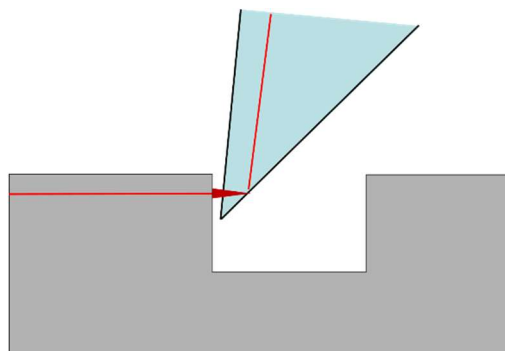


APPLICATIONS

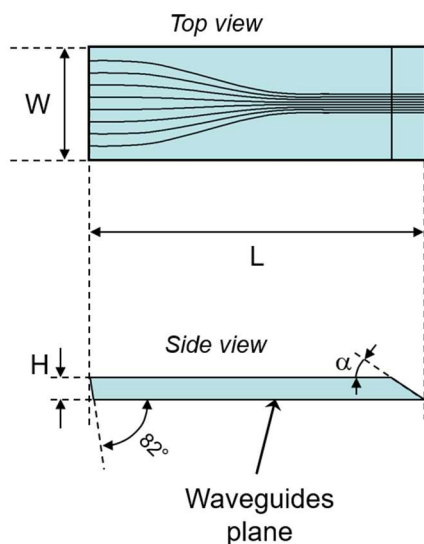
PIC packaging



Wafer-level testing

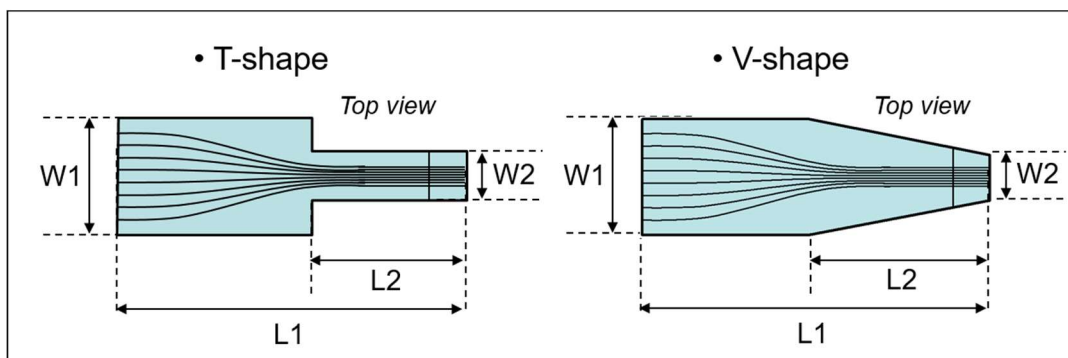


STANDARD TC-WAFT SHAPE



- W and L depend on the :
 - number of ports
 - input and output pitch
- $H = 1.5 \pm 0.05\ \text{mm}$
- $\alpha = 39^\circ, 40^\circ, 41^\circ \text{ or } 45^\circ \pm 0.5^\circ$

SHAPING OPTIONS



PART NUMBER DESCRIPTION

P/N : TC-WAFT-NC-IP-OP-S-CA-FO-FT-FA-CT		
NC	Number of Channels	From 1 to 256
IP	Input Pitch	127 or 250 μm
OP	Output Pitch	Down to 20 μm
S	Shaping	0 : No shaping C : Custom
CA	Chip Angle	39°, 40°, 41°, 45° or Custom (CM)
FO	Fibering Option	0 : Bare chip F : Chip pigtailed with fiber array
FT	Fiber Type	SM : SMF28 PM : Panda PM1550 CM : Custom
FA	Fiber Arrangement	SF : Singulated fibers FR : Fiber ribbon
CT	Connector Type	FC, SC, LC, ST, MPO