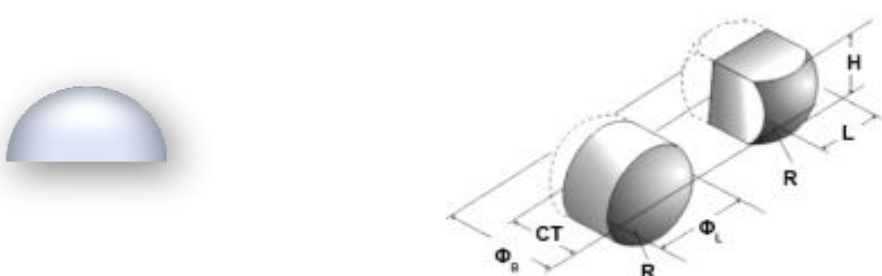


cut-ball lenses

Cut-ball microlenses are made from ball lenses and are widely used in endoscopy and microscopic applications. When complemented with glass spacers of appropriate thickness, cut-ball microlenses become excellent fiber optic collimators.

The NA of these lenses is proportional to refractive index of the glass spacers. A special case of cut-ball lenses are half ball lenses. These lenses can be used as fiber-optics collimators. In order to accommodate different fiber-arrays pitch, the edge of the lens may be ground to a desired width.

WEBCODE:		D148-xxx	
LENS DRAWING			
			
SPECIFICATIONS	SYMBOL	VALUE	
Lens Type		CUT-BALL LENS	
Material		FUSED SILICA BK7 LaSFN9	
Operating Wavelength	λ	400 – 1600 nm	
Available ball diameter	Φ	0.3 to 10 mm	
Diameter tolerance	$\Delta\Phi$	+/- 5 μm	
Central Thickness	CT	Typically half-diameter, but can be adjusted	
AR coating	AR	2S-VIS : broad band 2 side AR coating @ 600 – 900 nm 2S-NIR : broad band 2 side AR coating @ 750 – 1100 nm	
NOTE		custom diameter and custom AR coating are available upon request	