

Compact DSC Lens For 1.3M Pixel CMOS Imager**Description**

DSL805 lens is a multi-element glass lens optimized for 1.3M CMOS imager with 5.6-6 μ m pixels. It is especially suited for building low-cost, compact digital cameras because of the low-profile property of the lens design.

Key Features

- Optimized for Motorola/Kodak 1.3M CMOS with 5.6-6 μ m pixels with improved corner performance
- All glass elements: compatible with outdoor environment
- Aperture F/3.2: long depth of focus, optimized for fixed focus operation
- Optional self-centering lens holder CMT804 which minimizes alignment error of the lens to the imager
- Low-cost

Applications

- Compact digital still cameras

Optical specifications

PN	DSL805
Description	Compact DSC lens
Imager Format	~1/1.7"
Imager Resolution	1280x1024
Focal length (mm)	10.4
F/#	3.2
Max. Image Circle(mm)	10
Diagonal Field of View (deg)	51
35mm Equivalent Focal Length (mm)	46
Modulation Transfer Function (MTF)	See MTF data for details
Resolution	See MTF data for details
Distortion	-1.6%
Corner chief ray angle (deg)	12
Relative Illumination	64%
Total optical path length (mm)	16.7
Mechanical	See below
Filter Option	IR coating included
Lens mount option	CMT804

Mechanical Dimension (DSL805A version):