

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

DSL804 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

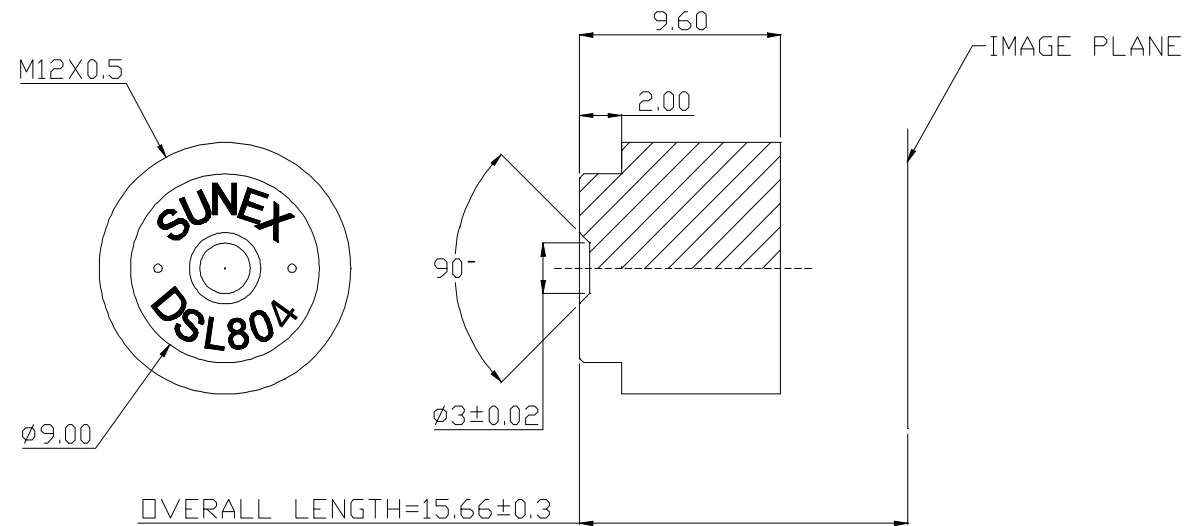
- Optimized for Motorola/Kodak 1.3M CMOS with 5.6-6 μ m pixels.
- Low profile: optical path length <16mm from lens front physical surface to the image plane
- All glass elements: compatible with outdoor environment
- Aperture F/3.2: long depth of focus, optimized for fixed focus operation
- Optional 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	DSL804
Description	Compact DSC lens
Imager Format	~1/2 nominal
Imager Resolution	1280x1024
Focal length (mm)	9.5
F/#	3.2
Max. Image Circle(mm)	9.8
Diagonal Field of View (deg)	54.6
35mm Equivalent Focal Length (mm)	40.7
Modulation Transfer Function (MTF)	See MTF data for details
Resolution	See MTF data for details
Distortion	-1.85%
Corner chief ray angle (deg)	14
Relative Illumination	62%
Total optical path length (mm)	15
Mechanical	See below
Filter Option	IR coating included with DSL804B version. NO IR with DSL804A version
Lens mount option	CMT804

Mechanical Dimension (DSL804A version):

Mechanical Dimension (DSL804B version):

