

Low-Profile Glass Lens For 1/3" Format VGA Imager**Description**

DSL851 lens is a multi-element glass lens optimized for VGA and SVGA CMOS imager with 1/3" format. It is especially suited for building compact digital cameras to be used with PDA and cell phone applications.

Key Features

- Optimized for 1/3" format CMOS imager
- Low profile and small size: optical path length 11.1mm from lens front physical surface to the image plane
- All glass elements: compatible with cell phone and outdoor environmental specifications
- High image quality: optimized for VGA resolution
- Aperture F/2.8: long depth of focus, optimized for fixed focus operation
- Low cost

Applications

- Pocket-size digital cameras
- Cell phone digital cameras
- Digital cameras for PDA
- Embedded camera modules

Optical specifications

PN	DSL851
Description	Low-profile lens
Imager Format	1/3"
Imager Resolution	640x480
Focal length (mm)	6
F/#	2.8
Max. Image Circle(mm)	6.15
Diagonal Field of View (deg)	54
Modulation Transfer Function (MTF)	See MTF data for details
Resolution	See MTF data for details
Distortion	-1.75%
Corner chief ray angle (deg)	4.65
Relative Illumination	67%
Total optical path length (mm)	11.1
Mechanical	See below
Filter Option	IR-642 coating included
Lens mount option	CMT811

Mechanical Dimension (DSL851C version):

