

Miniature Imaging Lens



Description

The DSL829 is an all glass lens optimized for use on an imager with 1/3" format size with up to 1.3MP resolution. This lens is ideal for compact digital still cameras, compact scanners and machine vision applications because of its low profile.

Key Features

- Low profile design
- All glass design optimizes thermal stability

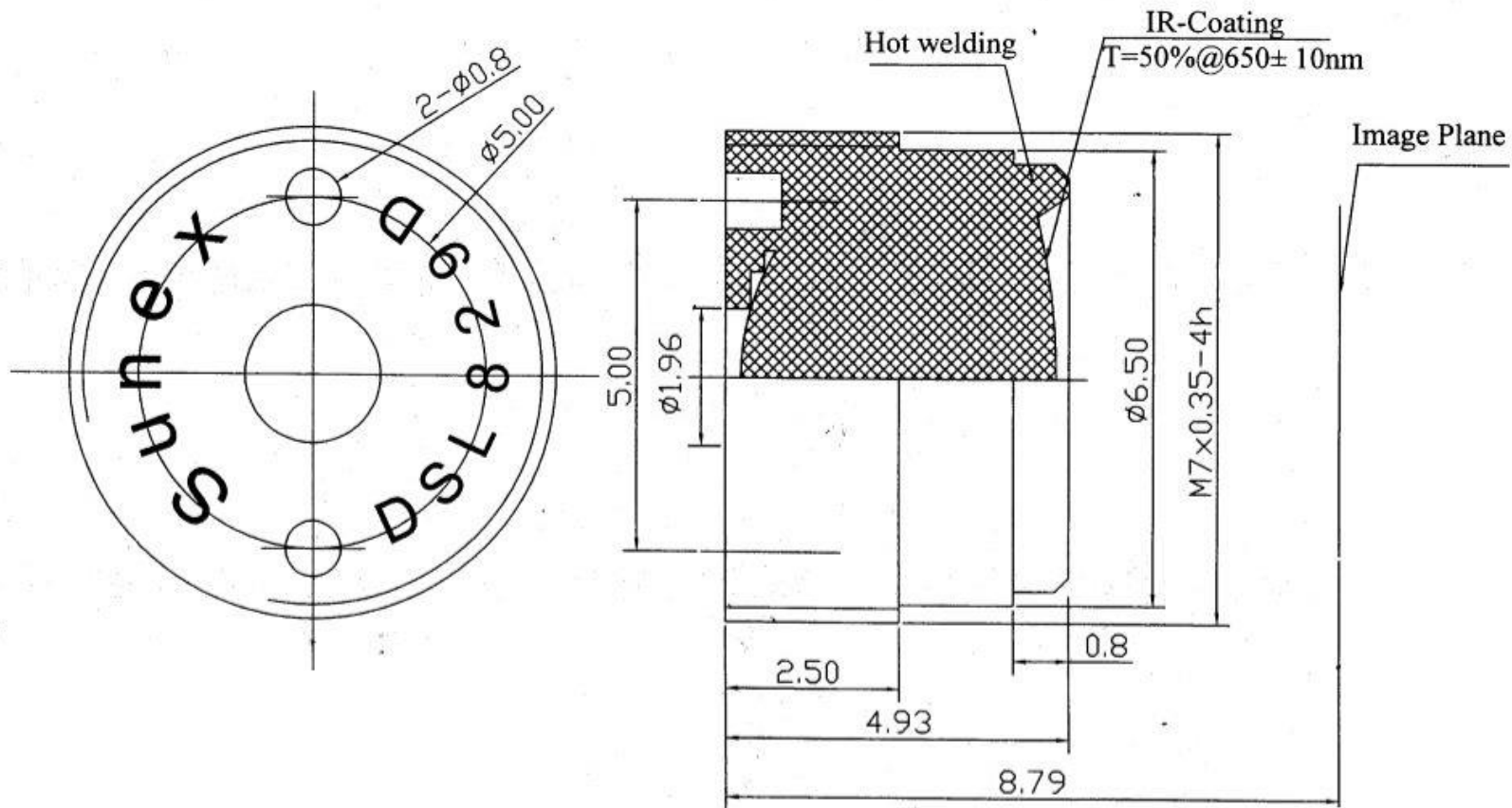
Optical Specifications

Sunex PN DSL829	
Description	Low-profile DSC lens
Imager Format	1/3"
Nominal Imager Resolution	1.3MP
Focal Length	5.9mm
Relative Aperture (F/#)	F/3.0
Image Circle	6.0mm
Field of View	53° at 6.0 mm image circle 44° at 4.8 mm image circle
Total Track Length	8.8mm
Distortion	<0.6% rectilinear
Chief Ray Angle	16° at 6.0mm image circle, linear
IR cut-off filter	Optional 650 nm cutoff coating

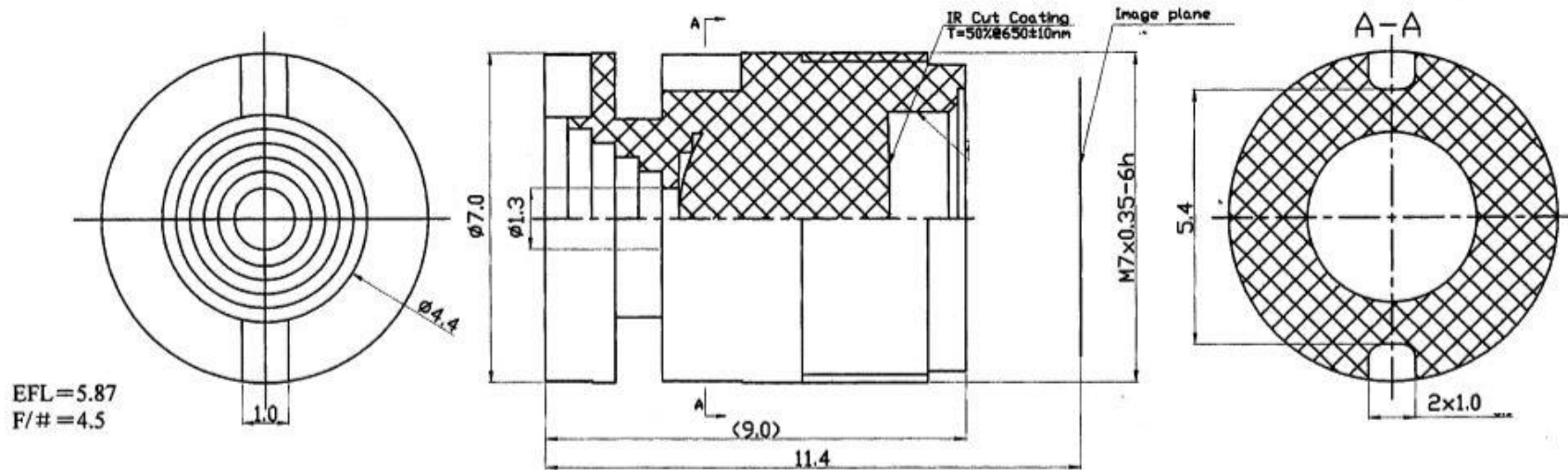
Applications

- Digital Still Cameras
- Scanners and Industrial Imaging
- Machine Vision

DSL829D-650-F3.0 Mechanical Dimensions [mm]:



DSL829E-650-F4.5 Mechanical Dimensions [mm]:

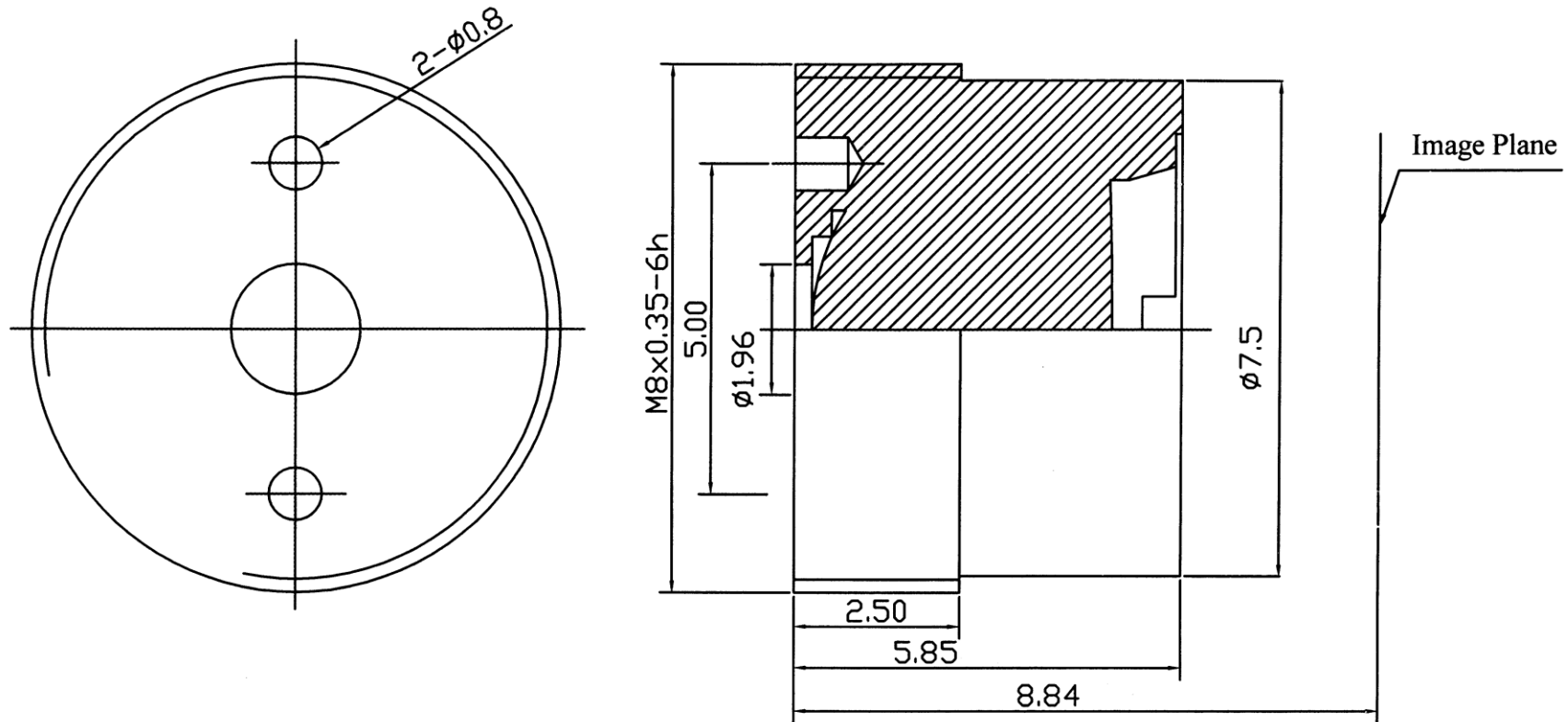


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Sunex, Inc.
Telephone: +1 760 597 2966
www.sunex.com

DSL829H-650-F3.0 and DSL829H-NIR-F3.0 Mechanical Dimensions [mm]:

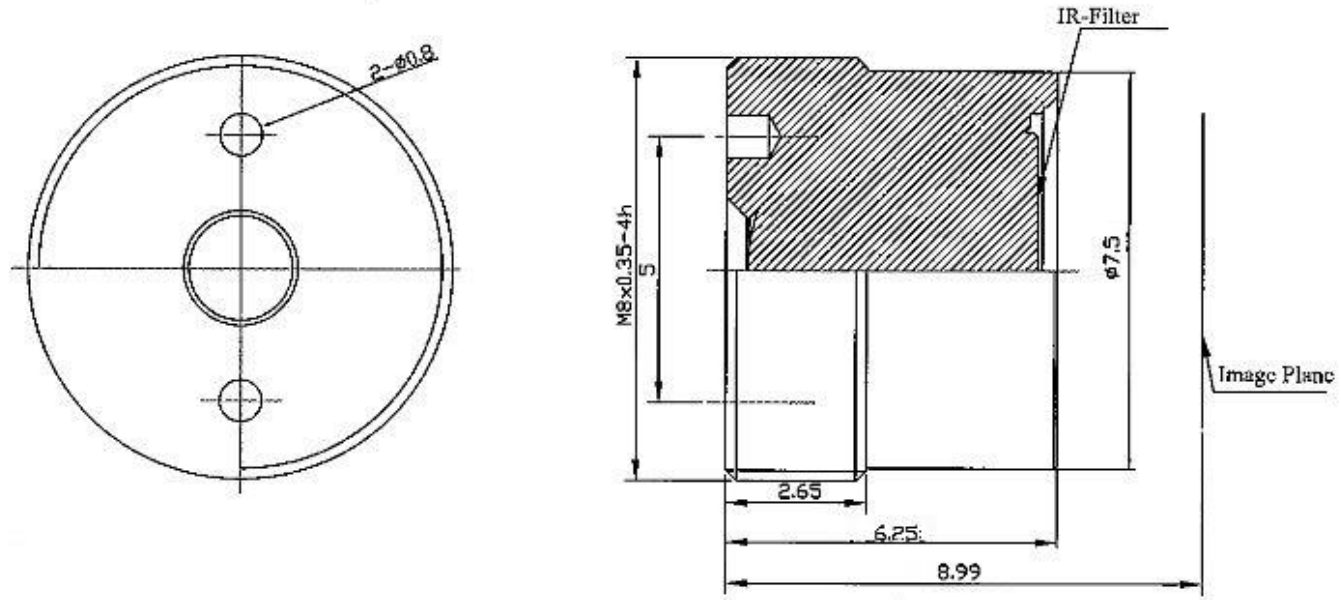
Note: DSL829H is intended for use with Sunex CMT830 mount



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DSL829J-940BP-F3.0 and DSL829J-950BP-F3.0 Mechanical Dimensions [mm]:



Notes:

1.EFL: 5.9mm

2.F#: 3.0

3.IR cut filter coating:

BP940nm

400-875nm, $T_{max} < 5\%$, $T_{avg} < 1.5\%$;

890 \pm 10nm, $T=50\%$;

920-960nm $T_{min} > 86\%$ $T_{avg} > 90\%$

985 \pm 10nm, $T=50\%$;

1000-1100nm, $T_{max} < 5\%$, $T_{avg} < 1.5\%$

4.barrel material: anodized AL6061

BP950nm

350-860nm, $T_{avg} < 5\%$;

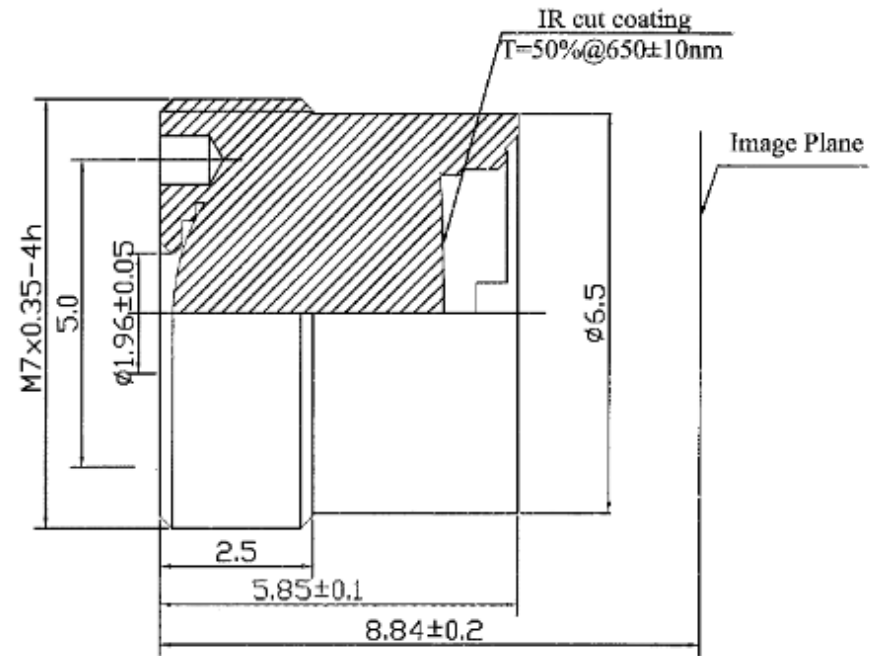
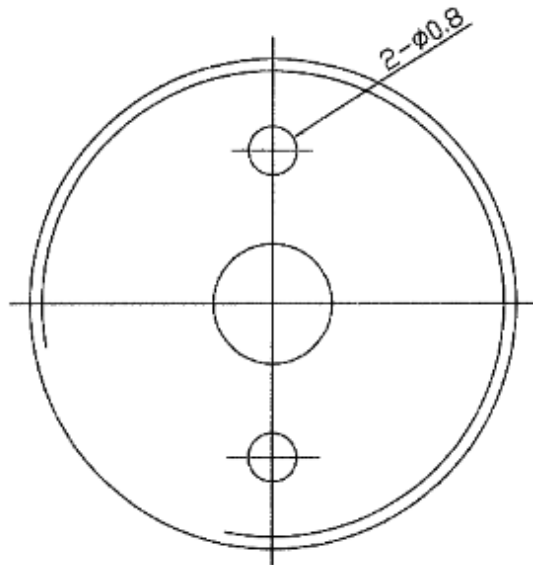
890 \pm 10nm, $T=50\%$;

900-1000nm, $T_{avg} > 90\%$

1010 \pm 10nm, $T=50\%$;

1040-1200nm, $T_{avg} < 5\%$

DSL829L-650-F3.0 Mechanical Dimensions [mm]:



Note:

- 1.EFL: $5.87 \pm 0.29 \text{ mm}$;
- 2.F/#: 3.0 ± 0.15 ;
- 3.Barrel Material: Black anodized AL6061;
- 4.IR cut: $T=50\% @ 650 \pm 10 \text{ nm}$;