

# 38.1mm Dia., 3mm Thick, ISP Optics CaF<sub>2</sub> Infrared (IR) Diffuser | DIF-IR-38-3

#24-711



Infrared (IR) Diffusers

해당 제품은 광대역 적외선(IR) 광원을 균일한 강도로 분포하는 데 사용됩니다. 한 면은 연마 처리를, 다른 한 면은 샌드블라스트 처리를 하여 빛을 산란시키는 거친 표면을 가지고 있습니다. 해당 제품은 기판이 플루오르화 칼슘(CaF<sub>2</sub>) 소재인 버전과 셀렌화 아연(ZnSe) 소재인 버전이 있습니다. 플루오르화 칼슘 소재의 기판은 0.3 - 8.0 $\mu$ m 파장 대역에서 투과율이 좋고, 셀렌화 아연 소재의 기판은 0.6 - 12.0 $\mu$ m 파장 대역에서 투과율이 좋습니다. 해당 제품은 FTIR 시스템, 레이저 교정 시스템, 조명 확산 등 다양한 어플리케이션에 적합합니다.

## General

Model Number:	DIF-IR-38-3
Type:	IR Diffuser
Note:	Fine Grind first surface with a roughness (Ra) of ~0.75 microns

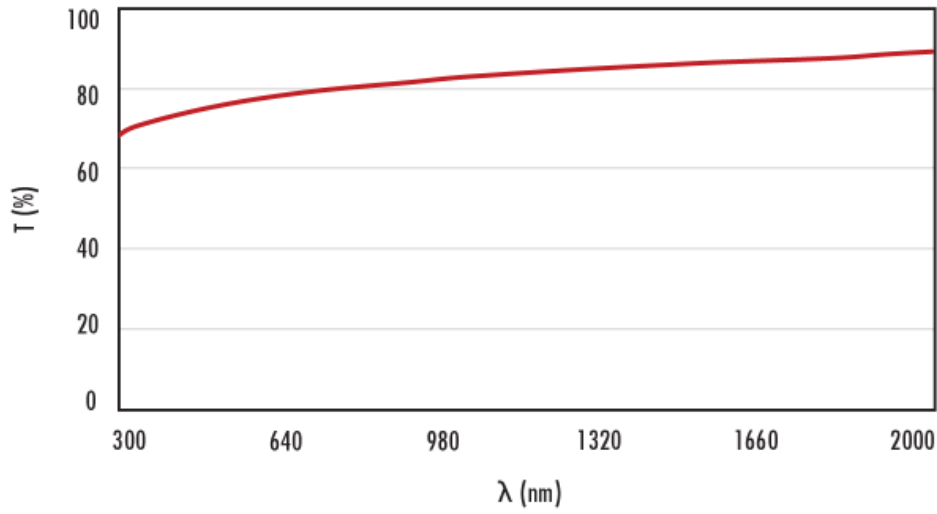
## Physical & Mechanical Properties

Diameter (mm):	38.10 +0.00/-0.13
Edges:	Ground Edges
Thickness (mm):	3.00 ±0.13

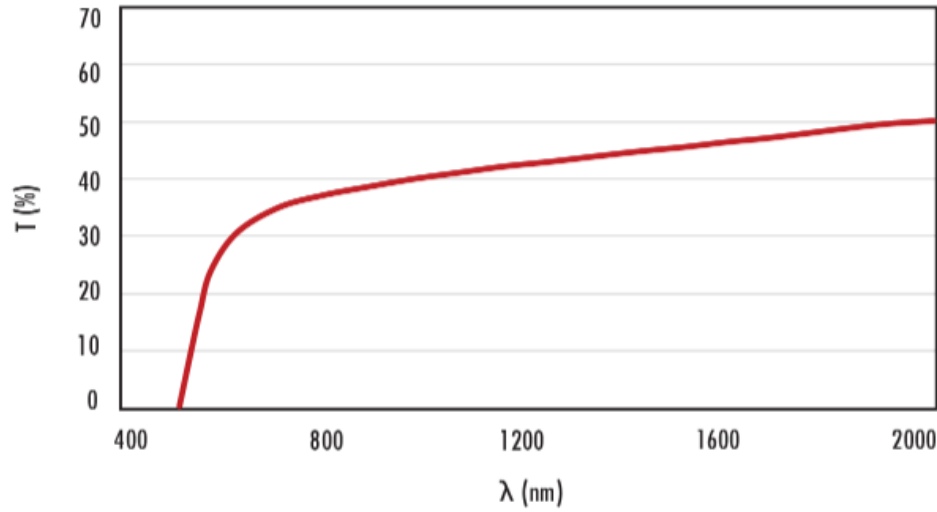
## Optical Properties

Coating:	Uncoated
Substrate:	<a href="#">Calcium Fluoride (CaF<sub>2</sub>)</a>
Wavelength Range (nm):	300 - 8000

**CaF<sub>2</sub> Diffuser**  
**Typical Transmission**



**ZnSe Diffuser**  
**Typical Transmission**





June 21, 2025

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

재고 번호	제품설명
24-711	38.1mm Dia., 3mm Thick, ISP Optics CaF <sub>2</sub> Infrared (IR) Diffuser   DIF-IR-38-3

This item is EU RoHS (2015/863/EU) compliant without the use of exemptions.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance  
June 21, 2025

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | [Compliance@edmundoptics.com](mailto:Compliance@edmundoptics.com)



June 21, 2025

재고 번호

24-711

제품설명

38.1mm Dia., 3mm Thick, ISP Optics CaF<sub>2</sub> Infrared (IR) Diffuser | DIF-IR-38-3

Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.



Jeff Harvey- EVP of Operations



June 21, 2025

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This item does not contain any of the substances listed on the Reach SVHC list as of 23 January 2024 in quantities exceeding 0.1% weight by weight.

Please note the following:

- Entry 11 of Annex V of the REACH regulation EC 1907/2006 as amended by regulation 987/2008, exempts “non-hazardous” glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

This certification means that:

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- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.

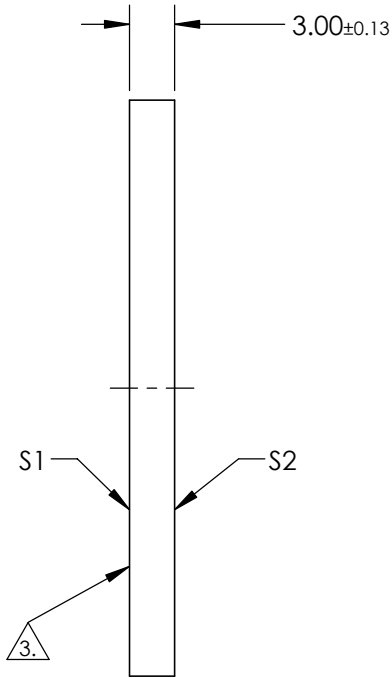
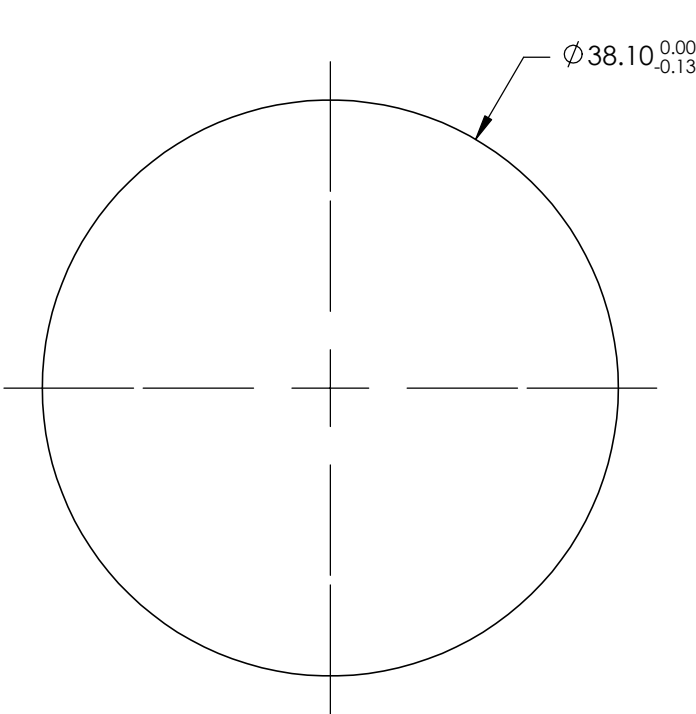


Jay Budd, Director of Corporate Compliance  
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NOTES:

1. SUBSTRATE: Calcium Fluoride (CaF<sub>2</sub>)
2. COATING (APPLY ACROSS CLEAR APERTURE)  
S1 & S2: NONE
3. FINE GRIND SURFACE TO ROUGHNESS(Ra) OF ~75µm



**FOR INFORMATION ONLY:  
DO NOT MANUFACTURE  
PARTS TO THIS DRAWING**

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY

	S1	S2
SHAPE	PLANO	PLANO
SURFACE QUALITY	N/A	40-20
CLEAR APERTURE	N/A	Ø 32.38
BEVEL	PROTECTED AS NEEDED	PROTECTED AS NEEDED

THIRD ANGLE PROJECTION	
ALL DIMS IN	mm

**EO<sup>®</sup> Edmund Optics<sup>®</sup>**

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