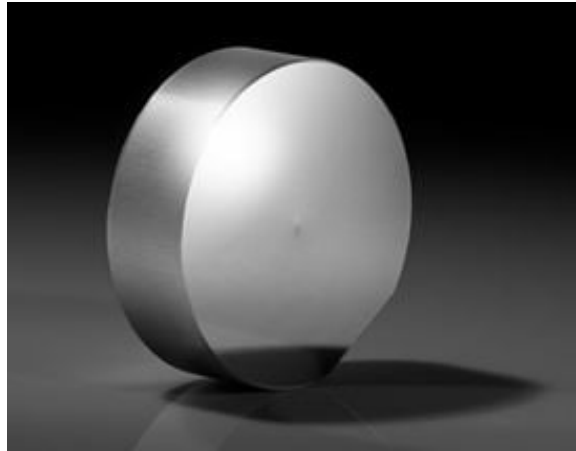


0.25° Axicon Angle, 480 - 580nm, Off-Axis Reflective Axicon #14-556



Cailabs Canunda-Axicons

Cailabs Canunda Reflective Axicons는 입사 시준광으로부터 근거리 베셀 빔을 생성하도록 정밀 제작된 off-axis reflective axicon입니다. 이 제품에 적용된 독특한 반사형 디자인은 색 분산을 제거하여 고출력 레이저 가공 용도에서의 성능을 향상해줍니다. Cailabs Canunda Reflective Axicons는 25.4mm의 표준 직경과 30°로 설정된 off-axis angle을 특징으로 하기 때문에 시스템과의 결합이 용이합니다. 이 밖에도 480 - 1100nm의 파장을 커버하는 다양한 유전체 코팅 옵션을 이용할 수 있어 일반적인 레이저 파장 및 복수의 베셀 빔 치수에 사용하기 적합합니다.

General

Type: Axicon, Off-Axis Reflective

Axicon Angle α (°): 0.25 $\pm$ 1.5%

Surface Roughness (nm): <4 RMS

Off-Axis Angle (°): 30

Physical & Mechanical Properties

Diameter (mm): 25.40 +0.0/-0.1

Edge Thickness ET (mm): 8.0 +0.0/-0.15

Clear Aperture (%): >90

Optical Properties

Design Wavelength DWL (nm): 515

Substrate: Aluminum

Surface Quality: 40-20

Coating Specification: R_{abs} >99% @ 480 - 580nm

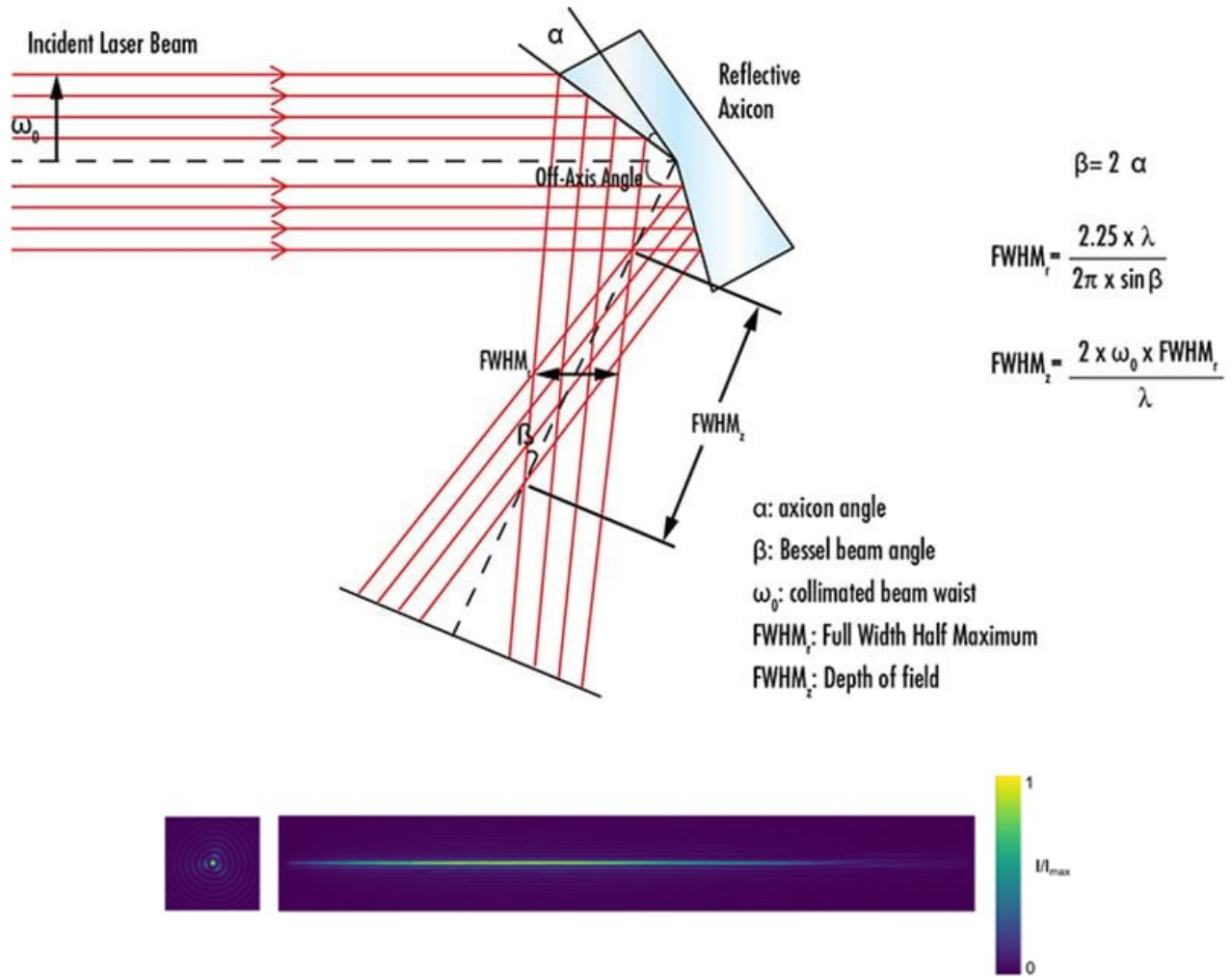
Wavelength Range (nm): 480 - 580

Coating Type: Dielectric

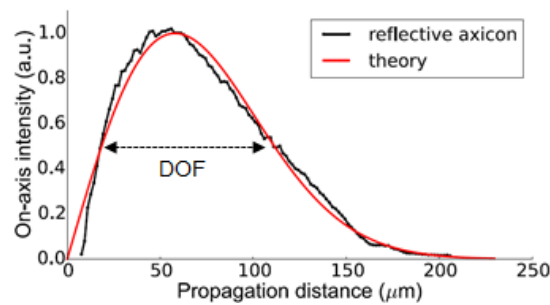
Damage Threshold, By Design: 0.2 J/cm² @ 515nm, 500fs

Wavefront Error, P-V: < λ /10

Damage Threshold, Pulsed: 0.2 J/cm² @ 515nm, 500fs



Typical Intensity Profile of a Bessel Beam Produced by a Cailabs Reflective Axicon Transverse Plot (left), Longitudinal Plot (right)



Energy Profile of a Magnified Axicon, Propagation Axis

ERROR: There are no stock numbers to display!

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Close Window

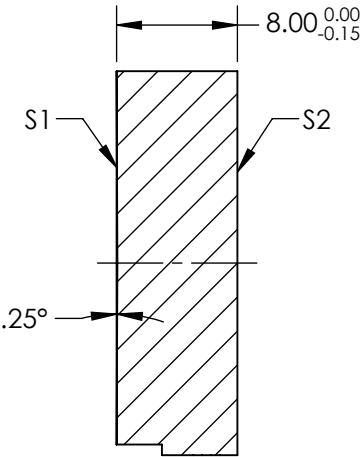
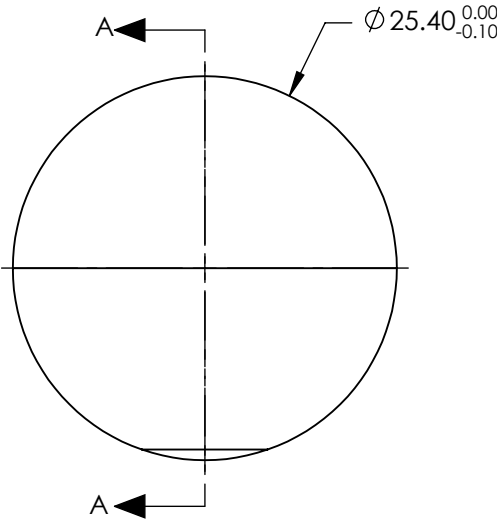
ERROR: There are no stock numbers to display!

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NOTES:

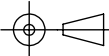
- 1. SUBSTRATE: ALUMINUM
- 2. COATING (APPLY ACROSS COATING APERTURE)
S1: R(ABS) > 99% @ 480 - 580nm
S2: NONE
- 3. FINE GRIND SURFACE
- 4. OFF-AXIS ANGLE(°): 30
- 5. REFLECTED WAVEFRONT ERROR, P-V: < λ/10
- 6. SURFACE ROUGHNESS: < 4nm RMS
- 7. RoHS: COMPLIANT



SECTION A-A

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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY

	S1	S2			 Edmund Optics®		
SHAPE	AXICON	PLANO	THIRD ANGLE PROJECTION 	TITLE	0.25° AXICON ANGLE, 480 - 580°, OFF-AXIS REFLECTIVE AXICON		
SURFACE QUALITY	40 - 20	N/A		DWG NO	14556		SHEET 1 OF 1
CLEAR APERTURE	Ø22.86	N/A					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm			