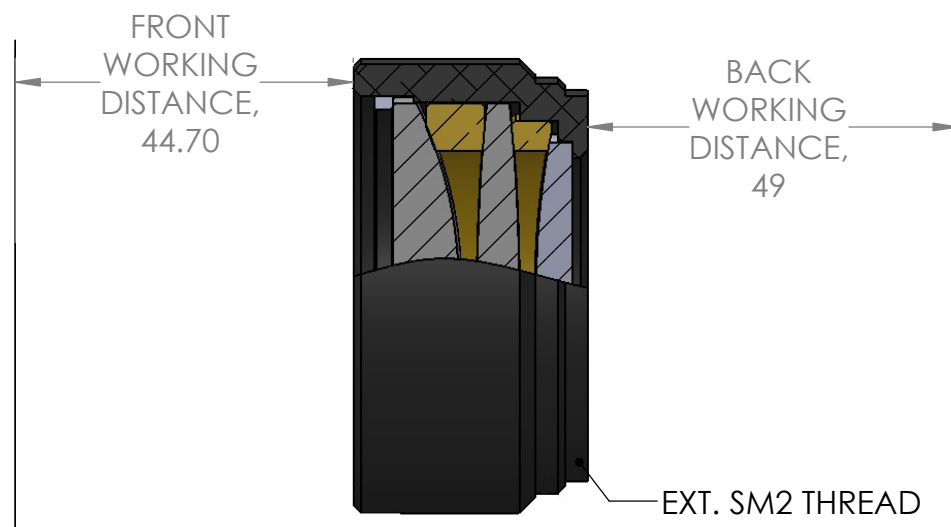


2

1

SPECIFICATIONS:

- 1.) THREE ELEMENT DESIGN, COMMERCIAL OFF THE SHELF OPTICS
- 2.) EFL, 59.5mm; LAMBDA, 1.350 μ m - 2.0 μ m
- 3.) WFNO, 19.84; NA, 0.025
- 4.) MAX OPTICAL SCAN ANGLE, 17.0 DEGREES (DIFF. LIM., 3MM DIAM.)
- 5.) MAX FIELD DISTORTION, 4% @ 17.0 DEGREES (DIFF. LIM., 3MM DIAM.)

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: CUSTOM OCT SCAN LENS ASSEMBLY		
		DIMENSIONS ARE IN MILLIMETERS TOLERANCES:	DRAWN	AC	08/31/18			
		ANGULAR: ± 0.1 NOMINAL: ±0.1 ONE PLACE DECIMAL ±0.05	CHECKED					
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE A DWG. NO. SSOCT-SL REV A		
		MATERIAL	COMMENTS: Questions or concerns, please contact Anderson Chen chena11@bu.edu					
		FINISH						
NEXT ASSY	USED ON	AS NOTED						
APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:2 WEIGHT: SHEET 1 OF 6					

2

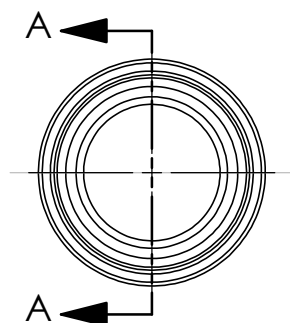
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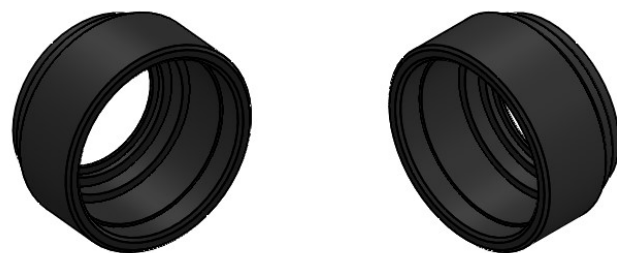
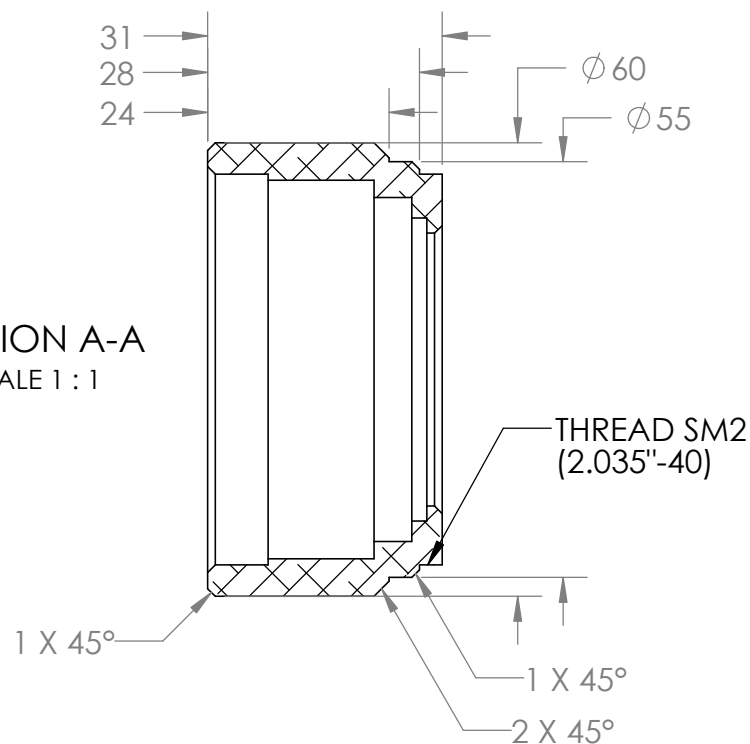
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B

B



SECTION A-A
SCALE 1 : 1



A

A



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: SCAN LENS HOUSING	
		DIMENSIONS ARE IN MILLIMETERS TOLERANCES:	DRAWN	AC	08/31/18		
		ANGULAR: ± 0.1 NOMINAL ± 0.1 ONE PLACE DECIMAL ± 0.05 TWO PLACE DECIMAL ± 0.02	CHECKED				
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.				
		MATERIAL 6061 ALUMINUM	MFG APPR.				
		FINISH MIL-A-8625, TYPE I FINISH, CLASS 2, BLACK	Q.A.			SIZE A	DWG. NO. SSOCT-SL-CHS-A
			COMMENTS: Questions or concerns, please contact Anderson Chen chena11@bu.edu			REV A	
NEXT ASSY	USED ON					SCALE: 1:2	WEIGHT:
APPLICATION		DO NOT SCALE DRAWING				SHEET 2 OF 6	

2

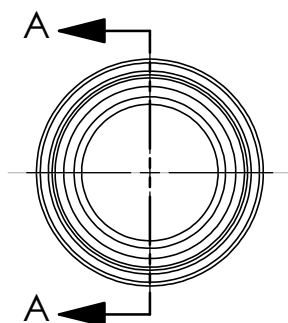
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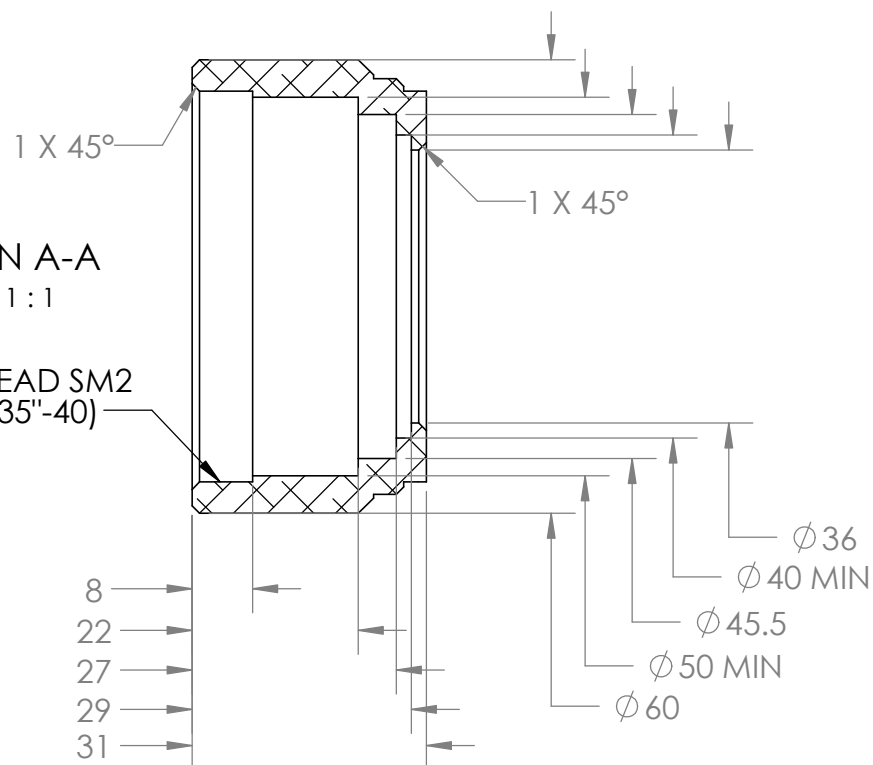
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B



SECTION A-A
SCALE 1 : 1

THREAD SM2
(2.035"-40)



A

A



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <div>SCAN LENS HOUSING</div>		
		DIMENSIONS ARE IN MILLIMETERS TOLERANCES:	DRAWN	AC	08/31/18			
		ANGULAR: ± 0.1 NOMINAL ±0.1 ONE PLACE DECIMAL ±0.05 TWO PLACE DECIMAL ±0.02	CHECKED					
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE <div>A</div> DWG. NO. <div>SSOCT-SL-CHS-B</div> REV <div>A</div>		
		MATERIAL 6061 ALUMINUM	COMMENTS: Questions or concerns, please contact Anderson Chen chena11@bu.edu					
NEXT ASSY	USED ON	FINISH MIL-A-8625, TYPE I FINISH, CLASS 2, BLACK						
APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:2				WEIGHT:	SHEET 3 OF 6

2

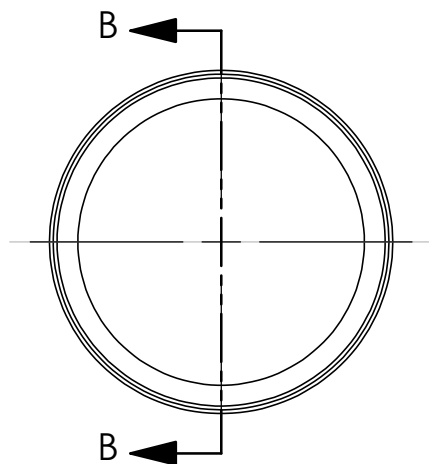
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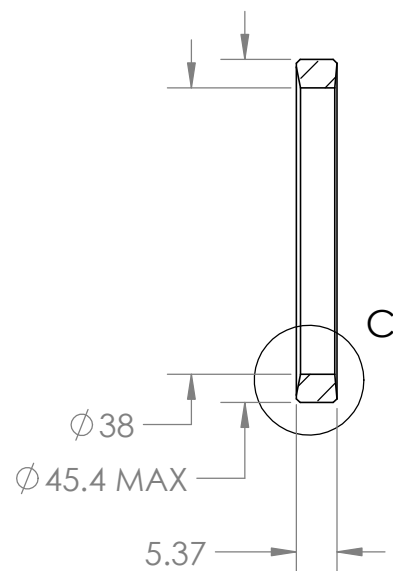
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B

B

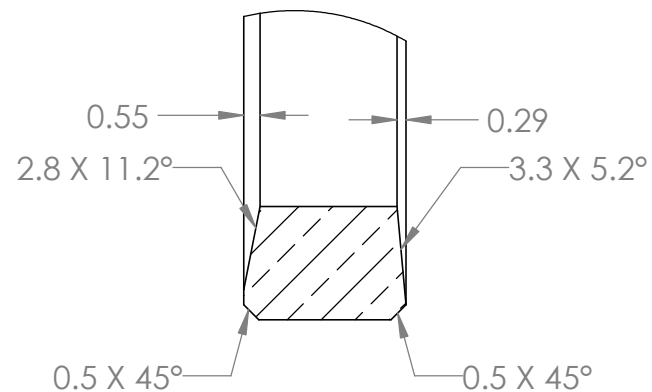


SECTION B-B



DETAIL C

SCALE 4 : 1



A

A



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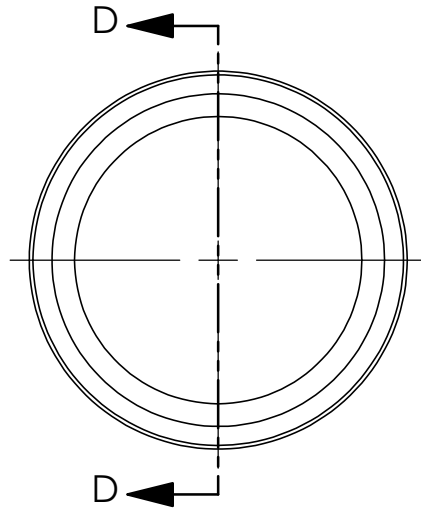
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <div>32898 SPACER</div>		
		DIMENSIONS ARE IN MILLIMETERS TOLERANCES:	DRAWN	AC	08/31/18			
		ANGULAR: ± 0.1 NOMINAL ±0.1 ONE PLACE DECIMAL ±0.05 TWO PLACE DECIMAL ±0.02	CHECKED					
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.					
		MATERIAL 360 BRASS	MFG APPR.					
		FINISH AS NOTED	Q.A.			SIZE A DWG. NO. SSOCT-SL-SP1 REV A		
NEXT ASSY	USED ON		COMMENTS: Questions or concerns, please contact Anderson Chen chena11@bu.edu					
APPLICATION		DO NOT SCALE DRAWING						
						SCALE: 1:1 WEIGHT: SHEET 4 OF 6		

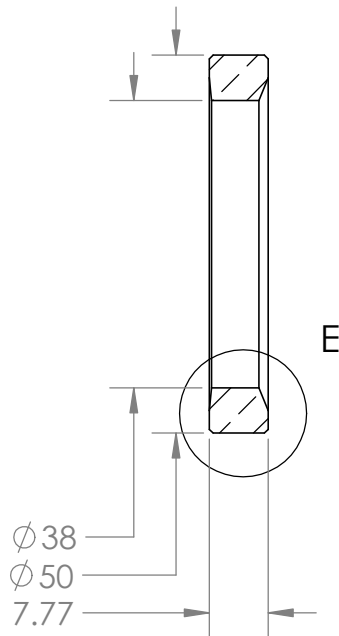
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1

B

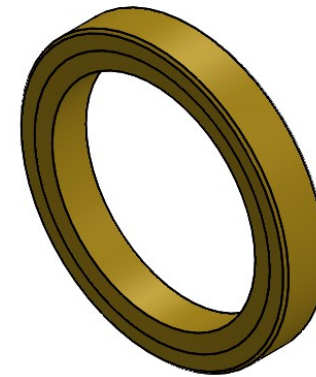
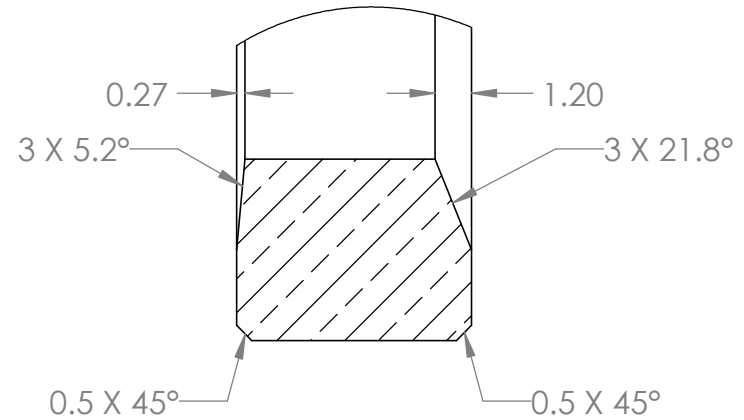


SECTION D-D



DETAIL E

SCALE 4 : 1



B

A

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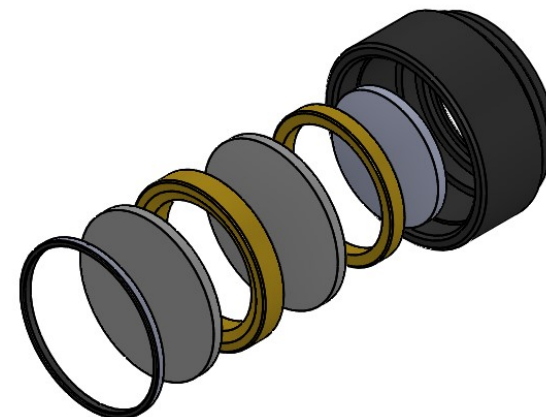
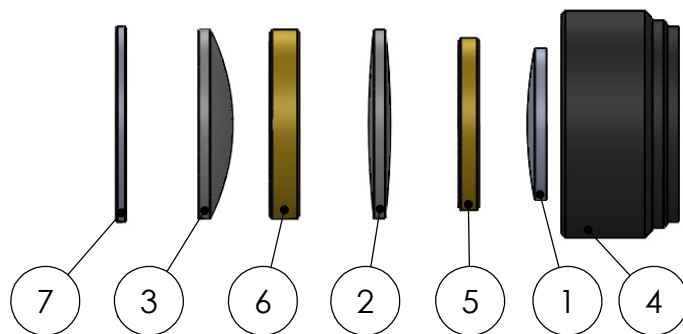
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: SLB50B220P SPACER		
		DIMENSIONS ARE IN MILLIMETERS TOLERANCES:	DRAWN	AC	08/31/18			
		ANGULAR: ± 0.1 NOMINAL ±0.1 ONE PLACE DECIMAL ±0.05 TWO PLACE DECIMAL ±0.02	CHECKED					
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE DWG. NO. REV A SSOCT-SL-SP2 A		
		MATERIAL 360 BRASS	COMMENTS: Questions or concerns, please contact Anderson Chen chena11@bu.edu					
NEXT ASSY	USED ON	FINISH AS NOTED						
APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:1 WEIGHT: SHEET 5 OF 6					

2

1

B



B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	32898	EDMUND OPTICS, PCX, N-K5, 40mm Dia., 200mm FL, Uncoated	1
2	SLB-50B-220P	OPTOSIGMA, BCX, 50mm Dia., 220.9mm, Uncoated	1
3	SLSQ-50-120P	OPTOSIGMA, PCX, Syn. FS, 50mm Dia., 120mm EFL, Uncoated	1
4	SSOCT-SL-HS	OPTICAL HOUSING	1
5	32898 SPACER	SPACER BETWEEN 32898 AND SLB-50B-220P	1
6	SLB50B220P SPACER	SPACER BETWEEN SLB-50B-220P AND SLSQ-50-120P	1
7	SM2RR	THORLABS - SM2 RETAINING RING	1

A



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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: SCAN LENS BILL OF MATERIALS			
		DIMENSIONS ARE IN MILLIMETERS	DRAWN	AC			08/31/18	
		TOLERANCES:	CHECKED					
		ANGULAR: ± 0.1	ENG APPR.					
		ONE PLACE DECIMAL ± 0.05	MFG APPR.					
		TWO PLACE DECIMAL ± 0.01	Q.A.			SIZE A	DWG. NO. SSOCT-SL-BOM	REV A
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS: Questions or concerns, please contact Anderson Chen chena11@bu.edu					
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON	AS NOTED				SCALE: 1:2	WEIGHT:	SHEET 6 OF 6
APPLICATION		DO NOT SCALE DRAWING						

A