

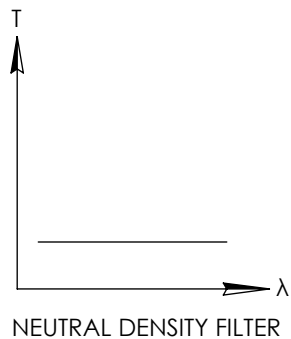
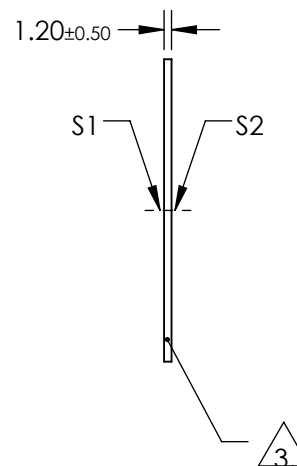
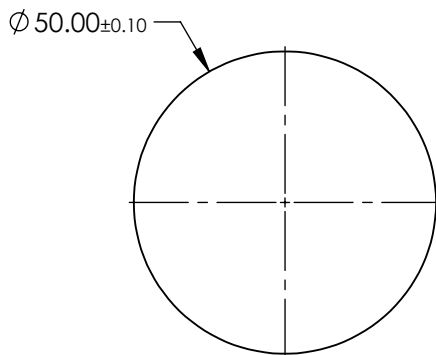
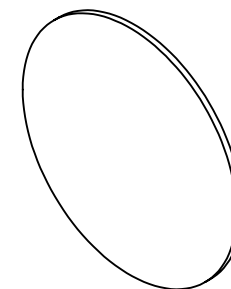
NOTES:

1. SUBSTRATE:
HOYA GLASS: ND-70
2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN $<0.02\text{mm}$

3. FINE GRIND SURFACE


4. OPTICAL DENSITY: 0.1 ±0.03
5. TRANSMISSION (%): 79 % AVERAGE FROM 400-700nm
6. ROHS COMPLIANT

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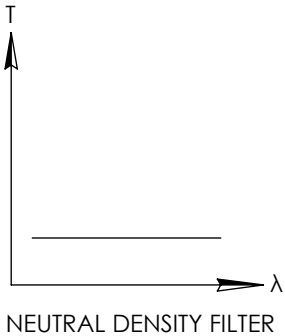
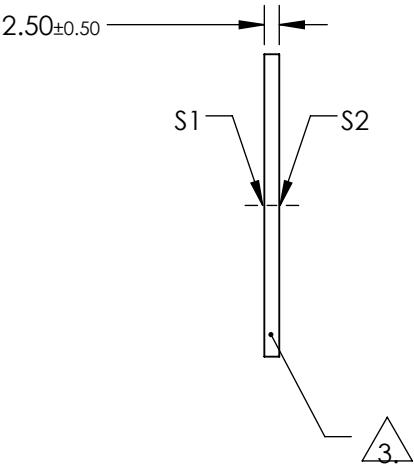
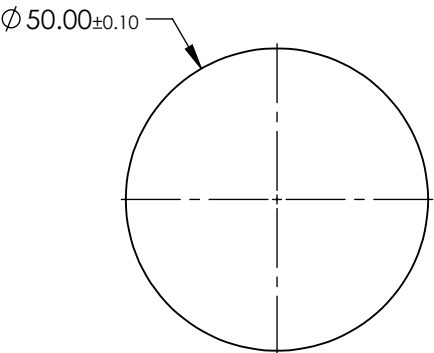
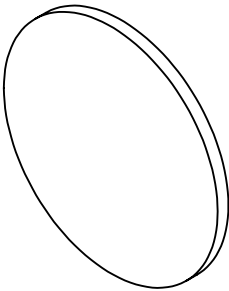


	S1	S2	THIRD ANGLE PROJECTION 		TITLE	OD 0.1, Ø50mm ABSORPTIVE ND FILTER	
SHAPE	PLANO	PLANO					
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO	65808	SHEET 1 OF 1

NOTES:


- 1. SUBSTRATE:
HOYA GLASS: ND-70
- 2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN <0.02mm
- 3. FINE GRIND SURFACE
- 4. OPTICAL DENSITY: 0.15 ±0.04
- 5. TRANSMISSION (%): 70 % AVERAGE FROM 400-700nm
- 6. ROHS COMPLIANT

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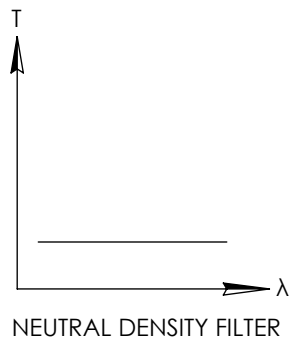
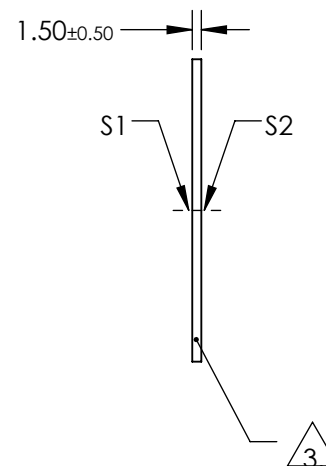
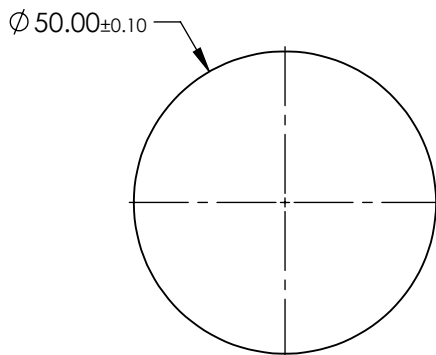
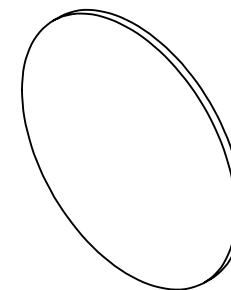
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SHAPE	PLANO	PLANO					
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO		
						SHEET 1 OF 1	

NOTES:


1. SUBSTRATE:
HOYA GLASS: ND-50
2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN <0.02mm
3.  FINE GRIND SURFACE
4. OPTICAL DENSITY: 0.2 ± 0.05
5. TRANSMISSION (%): 63 % AVERAGE FROM 400-700nm
6. ROHS COMPLIANT

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PARTS TO THIS DRAWING**



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	S1	S2	THIRD ANGLE PROJECTION 		OD 0.2, Ø50mm ABSORPTIVE ND FILTER		
SHAPE	PLANO	PLANO			TITLE		
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO	65810	SHEET 1 OF 1

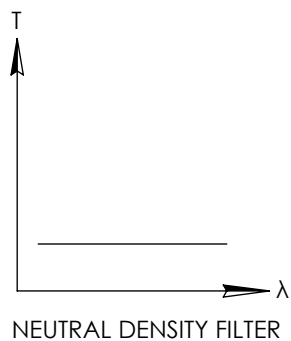
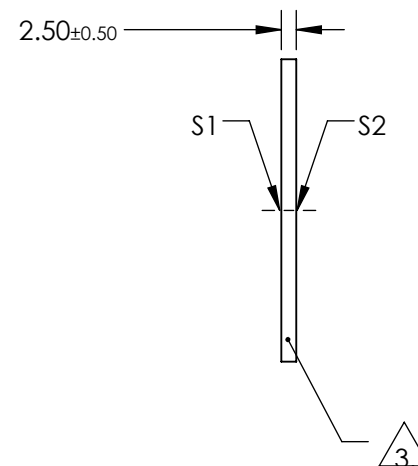
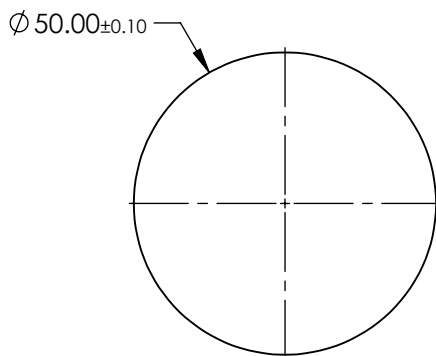
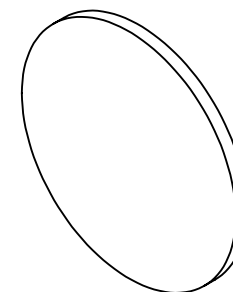
NOTES:

1. SUBSTRATE:
HOYA GLASS: ND-50
2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN $<0.02\text{mm}$

3. FINE GRIND SURFACE


4. OPTICAL DENSITY: 0.3 ± 0.05
5. TRANSMISSION (%): 50 % AVERAGE FROM 400-700nm
6. ROHS COMPLIANT

**FOR INFORMATION ONLY:
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PARTS TO THIS DRAWING**



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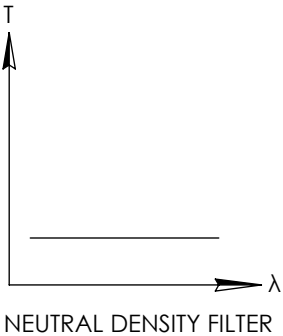
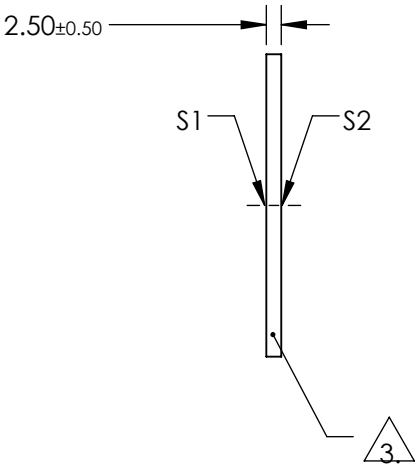
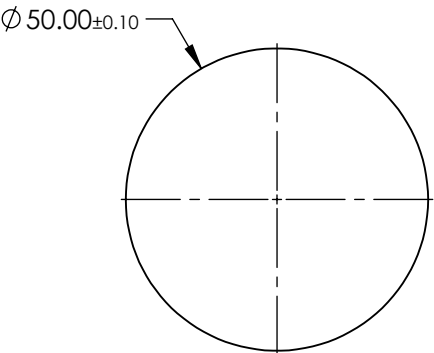
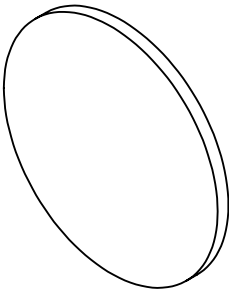


	S1	S2	THIRD ANGLE PROJECTION 		TITLE	OD 0.3, Ø50mm ABSORPTIVE ND FILTER	
SHAPE	PLANO	PLANO					
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO	65811	SHEET 1 OF 1

NOTES:


- 1. SUBSTRATE:
HOYA GLASS: ND-40
- 2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN <0.02mm
- 3. FINE GRIND SURFACE
- 4. OPTICAL DENSITY: 0.4 ±0.05
- 5. TRANSMISSION (%): 40 % AVERAGE FROM 400-700nm
- 6. ROHS COMPLIANT

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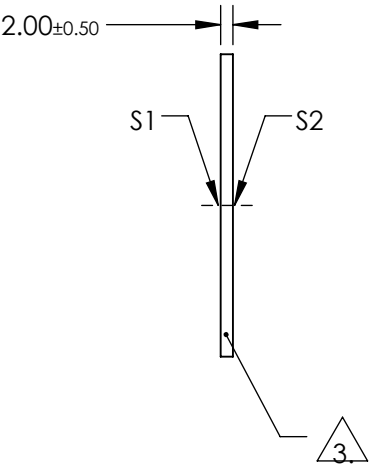
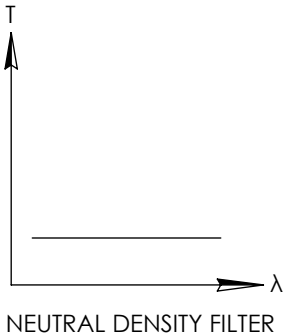
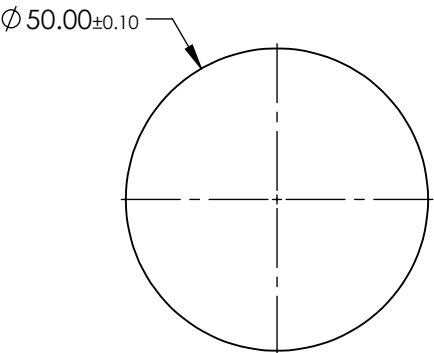
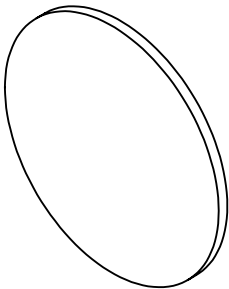
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SHAPE	PLANO	PLANO					
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO		

NOTES:


- 1. SUBSTRATE:
HOYA GLASS: ND-25
- 2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN <0.02mm
- 3. FINE GRIND SURFACE
- 4. OPTICAL DENSITY: 0.5 ±0.05
- 5. TRANSMISSION (%): 32 % AVERAGE FROM 400-700nm
- 6. ROHS COMPLIANT

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	S1	S2	THIRD ANGLE PROJECTION 		TITLE	OD 0.5, Ø50mm ABSORPTIVE ND FILTER	
SHAPE	PLANO	PLANO					
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO	65813	SHEET 1 OF 1

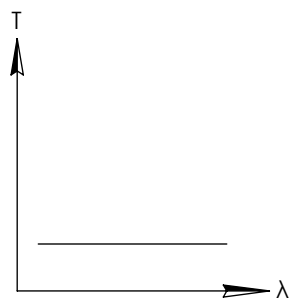
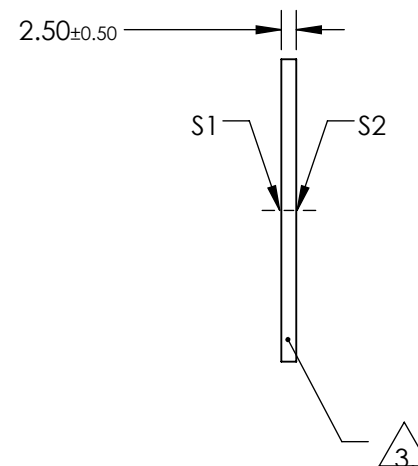
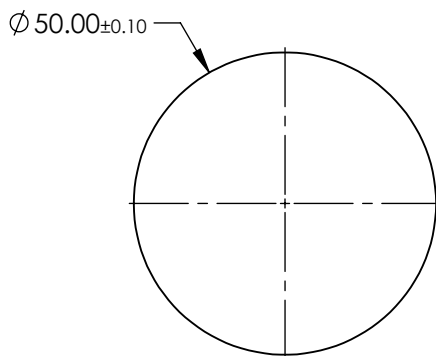
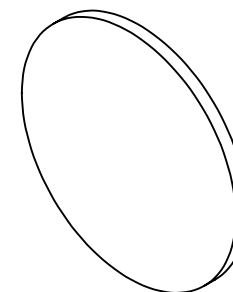
NOTES:

1. SUBSTRATE:
HOYA GLASS: ND-25
2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN <0.02mm

3. FINE GRIND SURFACE

4. OPTICAL DENSITY: 0.6 ±0.05
5. TRANSMISSION (%): 25 % AVERAGE FROM 400-700nm
6. ROHS COMPLIANT


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NEUTRAL DENSITY FILTER

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
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	S1	S2	<div>THIRD ANGLE PROJECTION</div> 		TITLE	OD 0.6, Ø50mm ABSORPTIVE ND FILTER	
SHAPE	PLANO	PLANO					
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO	65814	SHEET 1 OF 1

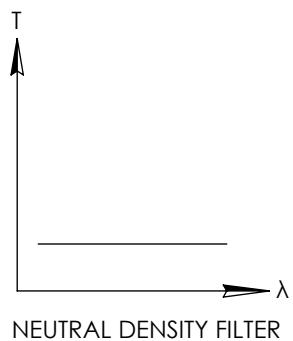
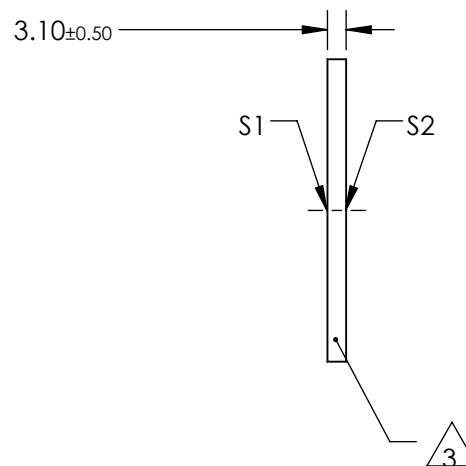
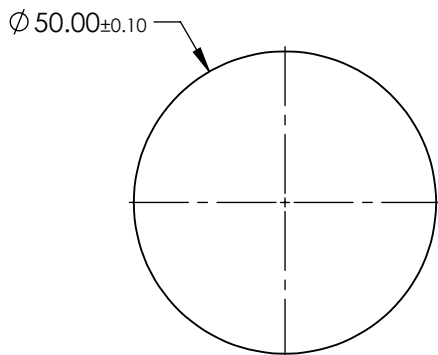
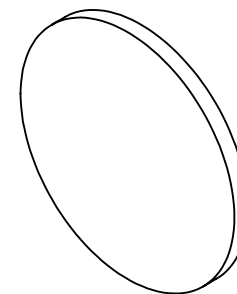
NOTES:

1. SUBSTRATE:
HOYA GLASS: ND-25
2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN $<0.02\text{mm}$

3. FINE GRIND SURFACE


4. OPTICAL DENSITY: 0.7 ± 0.05
5. TRANSMISSION (%): 20 % AVERAGE FROM 400-700nm
6. ROHS COMPLIANT

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PARTS TO THIS DRAWING**



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	S1	S2	THIRD ANGLE PROJECTION 		TITLE	OD 0.7, Ø50mm ABSORPTIVE ND FILTER	
SHAPE	PLANO	PLANO					
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO	65815	SHEET 1 OF 1

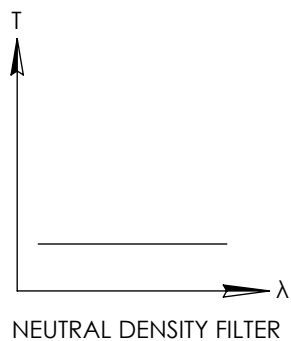
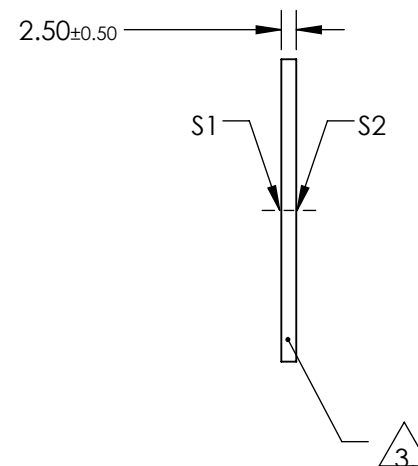
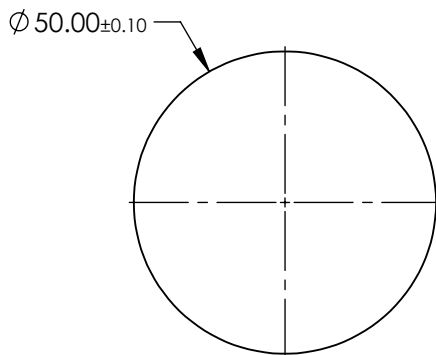
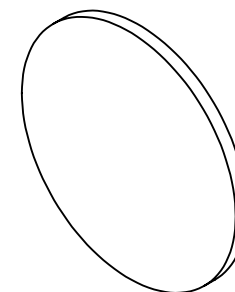
NOTES:

1. SUBSTRATE:
HOYA GLASS: ND-13
2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN $<0.02\text{mm}$

3. FINE GRIND SURFACE


4. OPTICAL DENSITY: 0.9 ± 0.1
5. TRANSMISSION (%): 12.5 % AVERAGE FROM 400-700nm
6. ROHS COMPLIANT

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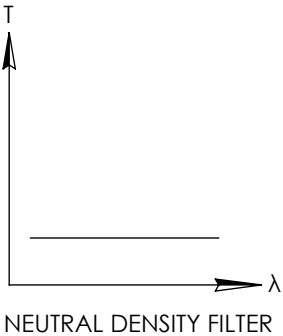
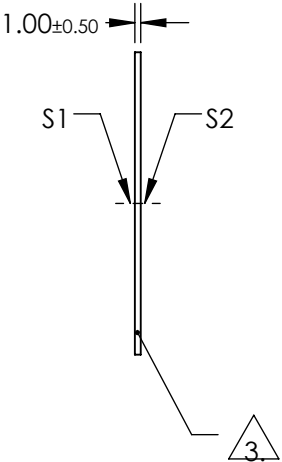
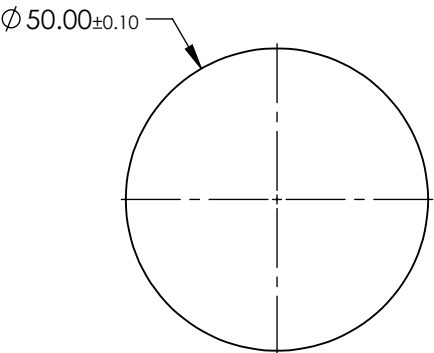
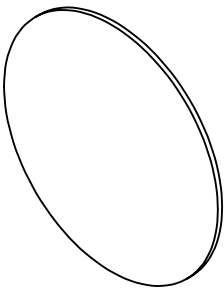


	S1	S2	THIRD ANGLE PROJECTION 		TITLE	OD 0.9, Ø50mm ABSORPTIVE ND FILTER	
SHAPE	PLANO	PLANO					
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO	65816	SHEET 1 OF 1

NOTES:


- 1. SUBSTRATE:
HOYA GLASS: ND-0.3
- 2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN <0.02mm
- 3. FINE GRIND SURFACE
- 4. OPTICAL DENSITY: 1.0 ±0.1
- 5. TRANSMISSION (%): 10 % AVERAGE FROM 400-700nm
- 6. ROHS COMPLIANT

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	S1	S2	<div>THIRD ANGLE PROJECTION</div> 		TITLE	OD 1, Ø50mm ABSORPTIVE ND FILTER		
SHAPE	PLANO	PLANO						
SURFACE QUALITY	80-50	80-50						
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO	65817		SHEET 1 OF 1

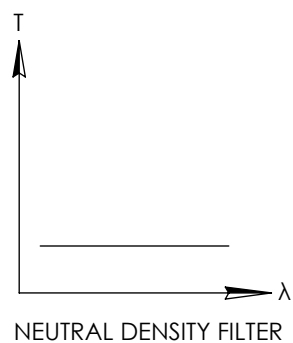
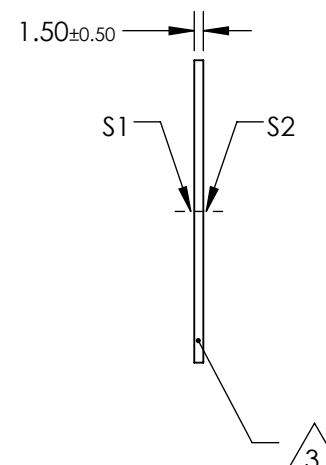
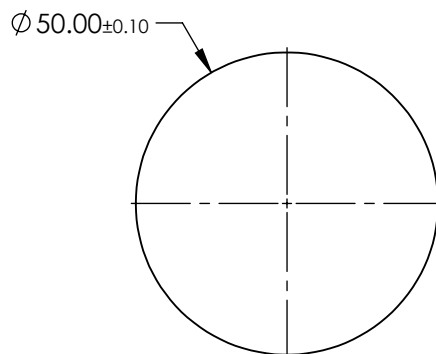
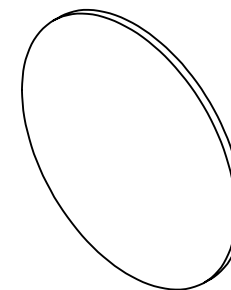
NOTES:

1. SUBSTRATE:
HOYA GLASS: ND-0.3
2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN <0.02mm

3. FINE GRIND SURFACE


4. OPTICAL DENSITY: 1.3 ± 0.1
5. TRANSMISSION (%): 5 % AVERAGE FROM 400-700nm
6. ROHS COMPLIANT

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	S1	S2	THIRD ANGLE PROJECTION 		TITLE	OD 1.3, Ø50mm ABSORPTIVE ND FILTER	
SHAPE	PLANO	PLANO					
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO	65818	SHEET 1 OF 1

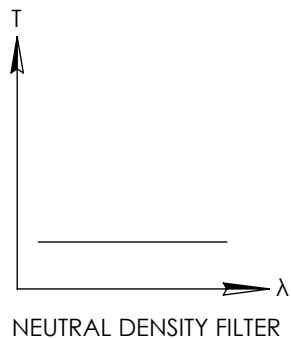
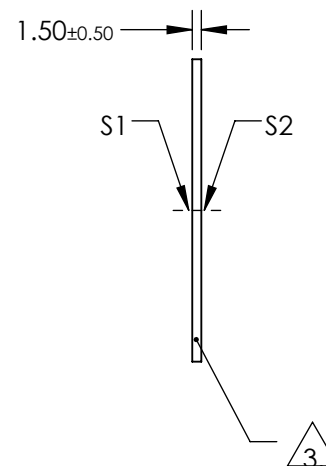
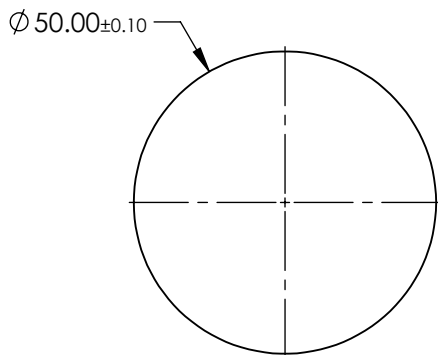
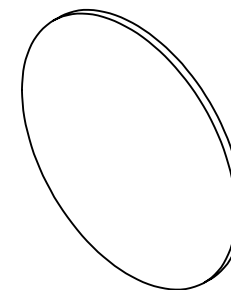
NOTES:

1. SUBSTRATE:
HOYA GLASS: ND-0.3
2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN <0.02mm

3. FINE GRIND SURFACE


4. OPTICAL DENSITY: 1.5 ±0.1
5. TRANSMISSION (%): 3.2 % AVERAGE FROM 400-700nm
6. ROHS COMPLIANT

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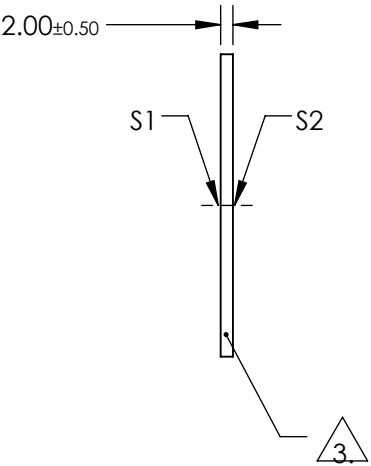
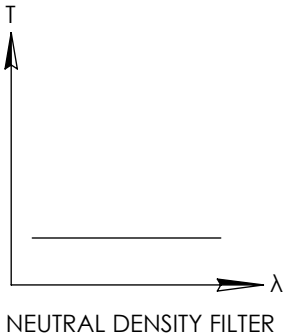
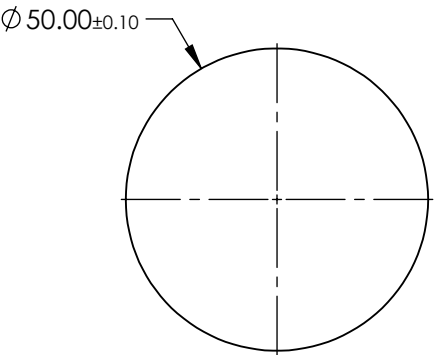
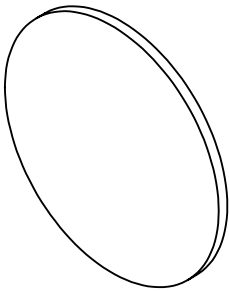


	S1	S2	THIRD ANGLE PROJECTION 		TITLE	OD 1.5, Ø50mm ABSORPTIVE ND FILTER	
SHAPE	PLANO	PLANO			DWG NO		
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm		65819	SHEET 1 OF 1

NOTES:

- 1. SUBSTRATE:
HOYA GLASS: ND-0.3
- 2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN <0.02mm
- 3. FINE GRIND SURFACE
- 4. OPTICAL DENSITY: 2.0 ±0.3
- 5. TRANSMISSION (%): 1 % AVERAGE FROM 400-700nm
- 6. ROHS COMPLIANT

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	S1	S2	THIRD ANGLE PROJECTION				TITLE		OD 2, Ø50mm ABSORPTIVE ND FILTER	
SHAPE	PLANO	PLANO								
SURFACE QUALITY	80-50	80-50								
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO	65820			SHEET 1 OF 1	

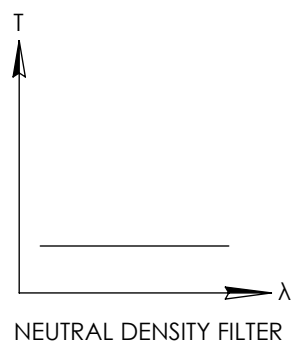
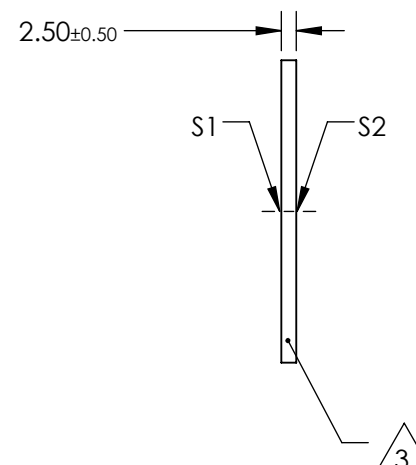
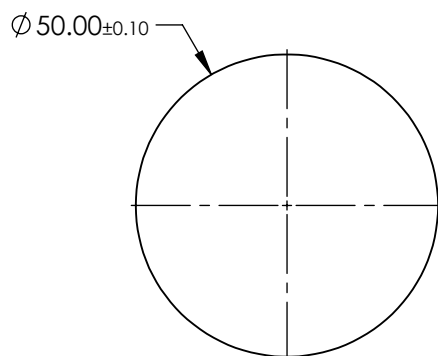
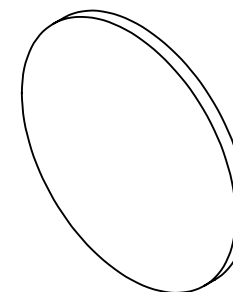
NOTES:

1. SUBSTRATE:
HOYA GLASS: ND-0.3
2. SURFACE S2 TO BE PARALLEL WITH SURFACE S1 TO WITHIN <0.02mm

3. FINE GRIND SURFACE


4. OPTICAL DENSITY: 2.5 ±0.1
5. TRANSMISSION (%): 0.3 % AVERAGE FROM 400-700nm
6. ROHS COMPLIANT

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



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY



	S1	S2	<div>THIRD ANGLE PROJECTION</div> 		TITLE	OD 2.5, Ø50mm ABSORPTIVE ND FILTER	
SHAPE	PLANO	PLANO					
SURFACE QUALITY	80-50	80-50					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO	65821	SHEET 1 OF 1