

Dimensional Inspection Report (Updated - Inches)

Project: Default Project

Part Name: Part 1

Drawn by: Tylor Good

Date: 11/6/2025

Scale: 5:3

Inspector: _____

Student: _____

1. Overall Dimensions

Feature	Description	Nominal (in)	Tolerance	Measured	Pass/Fail
1	Overall Length	1.261	± 0.0004	3.200	
2	Overall Height	1.136	± 0.0004	1.600	
3	Step Height	0.177	—	4.15	
4	Step Width	0.079	—	1.260	
5	Width (Depth)	0.344	± 0.0002	1.875	

2. Hole Features

Feature	Description	Nominal (in)	Tolerance	Measured	Pass/Fail
6	Ø Large Hole	Ø0.787	± 0.0002	Ø0.736	
7	Large Hole Position (X from left)	0.630	± 0.002	1.600	
8	Large Hole Position (Y from bottom)	0.630	± 0.002	0.800	
9	Ø Small Hole #1	Ø0.374	± 0.0004	Ø0.2195	
9a	Small Hole #1 Depth	—	—	Thru	
10	Small Hole #1 Position (X from left)	0.315	± 0.002	0.500	
11	Small Hole #1 Position (Y from bottom)	0.315	± 0.002	0.500	
12	Threaded Hole	M12×1.5	6H Thru	M20×1.5	
13	Ø Small Hole #2	Ø0.374	± 0.0004	Ø0.2195	
13a	Small Hole #2 Depth	—	—	Thru	
14	Small Hole #2 Position (X from left)	—	—	2.195	
15	Small Hole #2 Position (Y from bottom)	—	—	0.500	

3. Chamfers and Angles

Feature	Description	Nominal	Tolerance	Measured	Pass/Fail
16	Chamfer Angle	45°	$\pm 1^\circ$		

17	Chamfer Width	0.033	±0.002		
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4. Surface and Thread Checks

Feature	Description	Requirement	Actual	Pass/Fail
18	Thread M20×1.5 pitch accuracy	Go/No-Go gauge		
19	Surface finish	Per class requirement		
20	Visual inspection	No burrs / defects		

5. Notes & Comments

6. Summary

Criteria	Result
Total Features Checked	20
Pass	
Fail	
Inspector Signature	_____
Date	_____