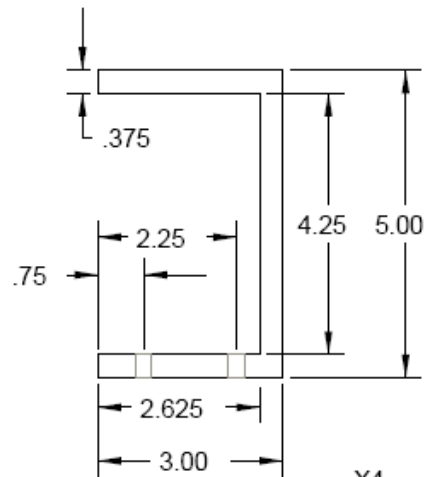
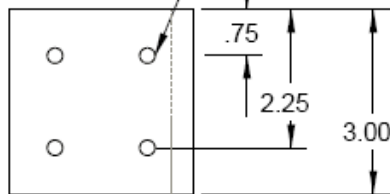


BILL OF MATERIALS		
ID	DESCRIPTION	QTY
1	BOTTOM	1
2	OUTSIDEBOX	1
3	BOX_BRACKET	11
4	BUTTON	3
5	COLOR_FILTER_SLIDE	2
6	COLOR_FILTER_SUPPORT	1
7	CAMERA_MOUNT	1
8	CIRCUIT_BOARD	1
9	TIP	2
10	DOOR	1
11	FINGER	2
12	FINGERSUPPORT	2
13	HATCH	1
14	HINGE	1
15	LIGHT	1
16	LIGHTBRACKET	2
17	LIGHTSUPPLY	1
18	LIGHTSUPPORT	1
19	POWERSUPPLY	1
20	SCREW_1	6
21	SCREW_2	8
22	SCREW_4	32
23	SCREW_5	4
24	SCREW_6	6
25	SERVOMOUNT	1
26	TOOL_2	1

Tolerances - Unless Otherwise Specified X ±0.05 XX ±0.01 XXX ±0.005 Fractions ± 1/64 Angles ± 1°		Assembly of Model (view 1)	
Signature		Date	
Original by		Customer Drawing #2	
Drawn by		Rochester Institute of Technology Multi-Disciplinary Senior Design Kate Gleason College of Engineering	
Checked by			
Facility Gate		DO NOT SCALE	
Customer		RIT Drawing Number	
		SHEET	



X4
 1/4-20 UNC- 2B TAP THRU
 #7 DRILL (0.200) THRU-(1) HOLE



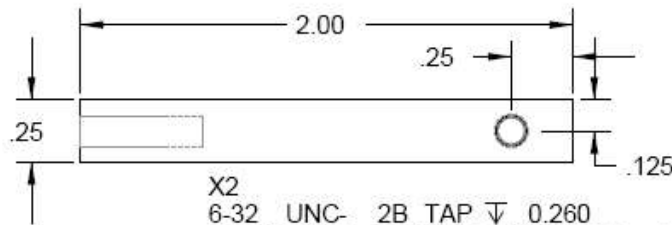
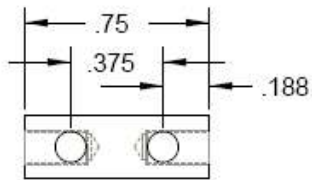
Material: Alloy 6061 Aluminum

All Dimensions in inches
 unless otherwise specified

Tolerances - Unless Otherwise Specified X ±0.05 XX ±0.01 XXX ±0.005 Fractions ± 1/64 Angles ± 1°		Camera Mount for Micro-Goniophotometer			
		Camera Mount			
		Customer Drawing #			
Originated by	Signature	Date	Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Drawn by					
Checked by					
Faculty Guide					
Customer			DO NOT SCALE	RIT Drawing Number	SHEET



X2
 6-32 UNC- 2B TAP ∇ 0.260
 #36 DRILL (0.110) ∇ 0.270 - (1) HOLE

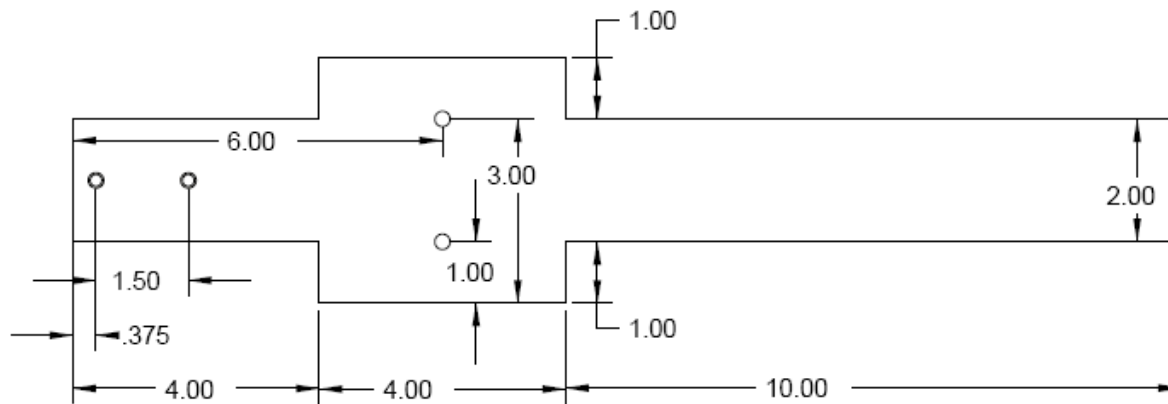


X2
 6-32 UNC- 2B TAP ∇ 0.260
 #36 DRILL (0.110) ∇ 0.270 - (1) HOLE

Material: Alloy 6061 Aluminum

All Dimensions in inches
 unless otherwise specified

Tolerances - Unless Otherwise Specified X \pm 0.05 .XX \pm 0.01 .XXX \pm 0.005 Fractions \pm 1/64 Angles \pm 1°		Color Filter Support for Micro-Goniophotometer All dimensions in inches		
Signature		Date		Customer Drawing #
Originated by		Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Drawn by				
Checked by				
Faculty Guide				
Customer		DO NOT SCALE	RIT Drawing Number	SHEET



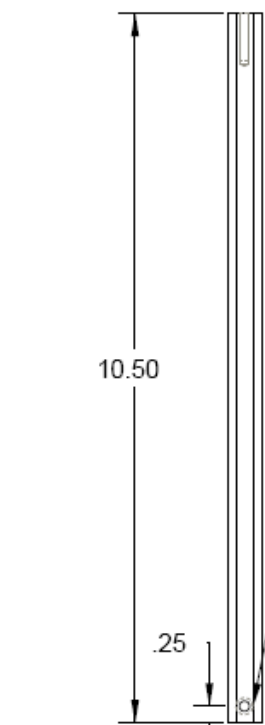
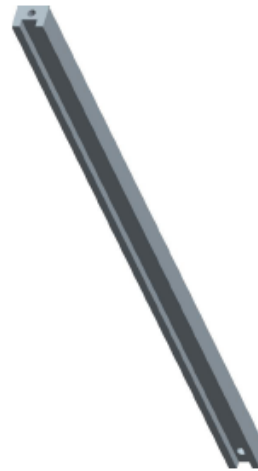
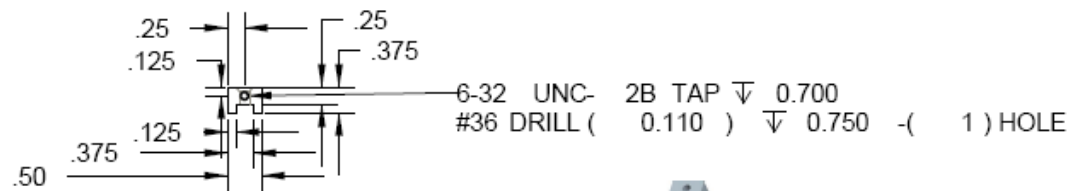
All Holes:
 14-20 UNC- 2B TAP ∇ 0.460
 #10 DRILL (0.190) THRU-(1) HOLE

Material: Alloy 6061 Aluminum

Part thickness = 0.25

All dimensions in inches
 unless otherwise specified

Tolerances - Unless Otherwise Specified X ±0.05 XX ±0.01 XXX ±0.005 Fractions ± 1/64 Angles ± 1°		Door for Micro-Goniophotometer			
		Door			
		Customer Drawing #			
Originated by	Signature	Date	Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Drawn by					
Checked by					
Faculty Guide					
Customer			DO NOT SCALE	RIT Drawing Number	SHEET

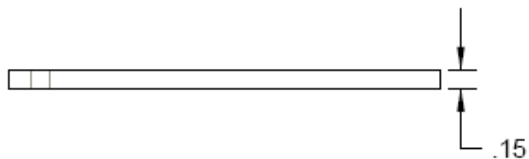


6-32 UNC- 2B CLEAR
 #25 DRILL (0.150) THRU- (1) HOLE

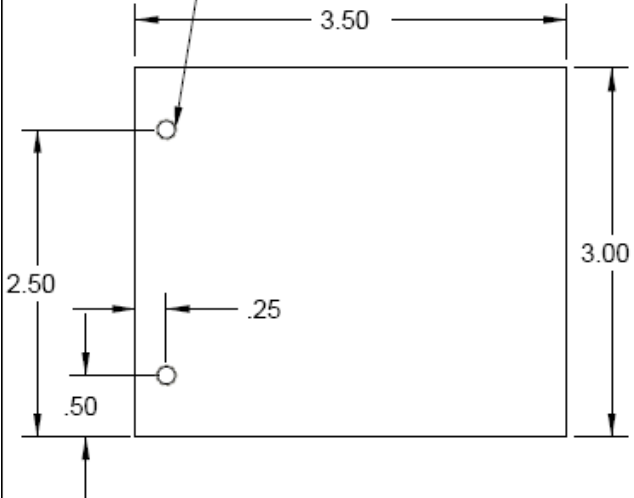
Material: Polycarbonete

All Dimensions in inches
 unless otherwise specified

Tolerances - Unless Otherwise Specified X ±0.05 XX ±0.01 XXX ±0.005 Fractions ± 1/64 Angles ± 1°		Color Filter Slide for Micro-Goniophotometer		
		Color Filter Slide		
	Signature	Date	Customer Drawing #	
Originated by			Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering	
Drawn by				
Checked by				
Faculty Guide			DO NOT SCALE	RIT Drawing Number
Customer				SHEET



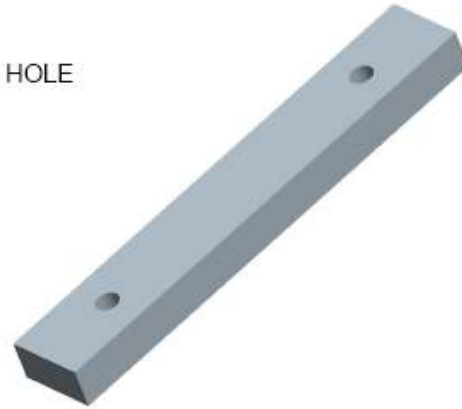
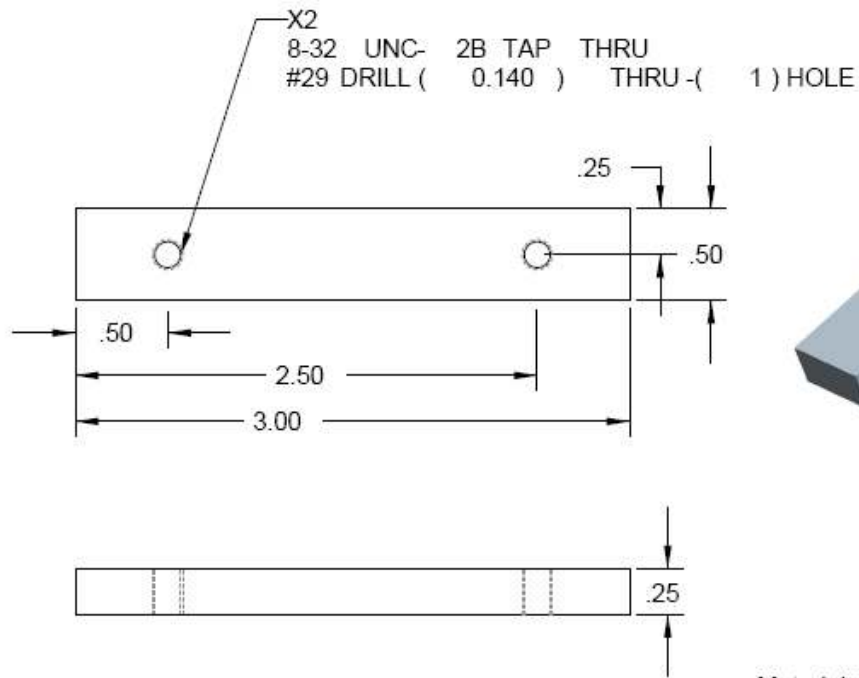
X2
 8-32 UNC- 2B TAP THRU
 #29 DRILL (0.140) THRU-(1) HOLE



Material: high Density Polyethylene

All Dimensions in inches
 unless otherwise specified

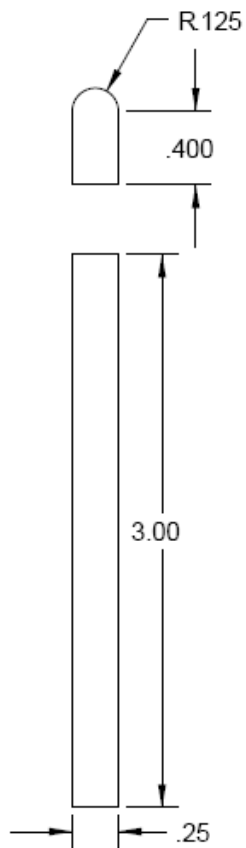
Tolerances - Unless Otherwise Specified X ±0.05 XX ±0.01 XXX ±0.005 Fractions ± 1/64 Angles ± 1°		Title		
Signature		Part Name		
Date		Customer Drawing #		
Originated by		Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Drawn by				
Checked by				
Faculty Guide				
Customer		DO NOT SCALE	RIT Drawing Number	SHEET



Material: High Density Polyethylene

All Dimensions in inches
unless otherwise specified

Tolerances - Unless Otherwise Specified X ±0.05 XX ±0.01 XXX ±0.005 Fractions ± 1/64 Angles ± 1°		Finger Support for Micro-Goniophotometer		
		Finger Support		
		Customer Drawing #		
Originated by	Signature	Date	Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering	
Drawn by				
Checked by				
Faculty Guide			DO NOT SCALE	RIT Drawing Number
Customer				SHEET

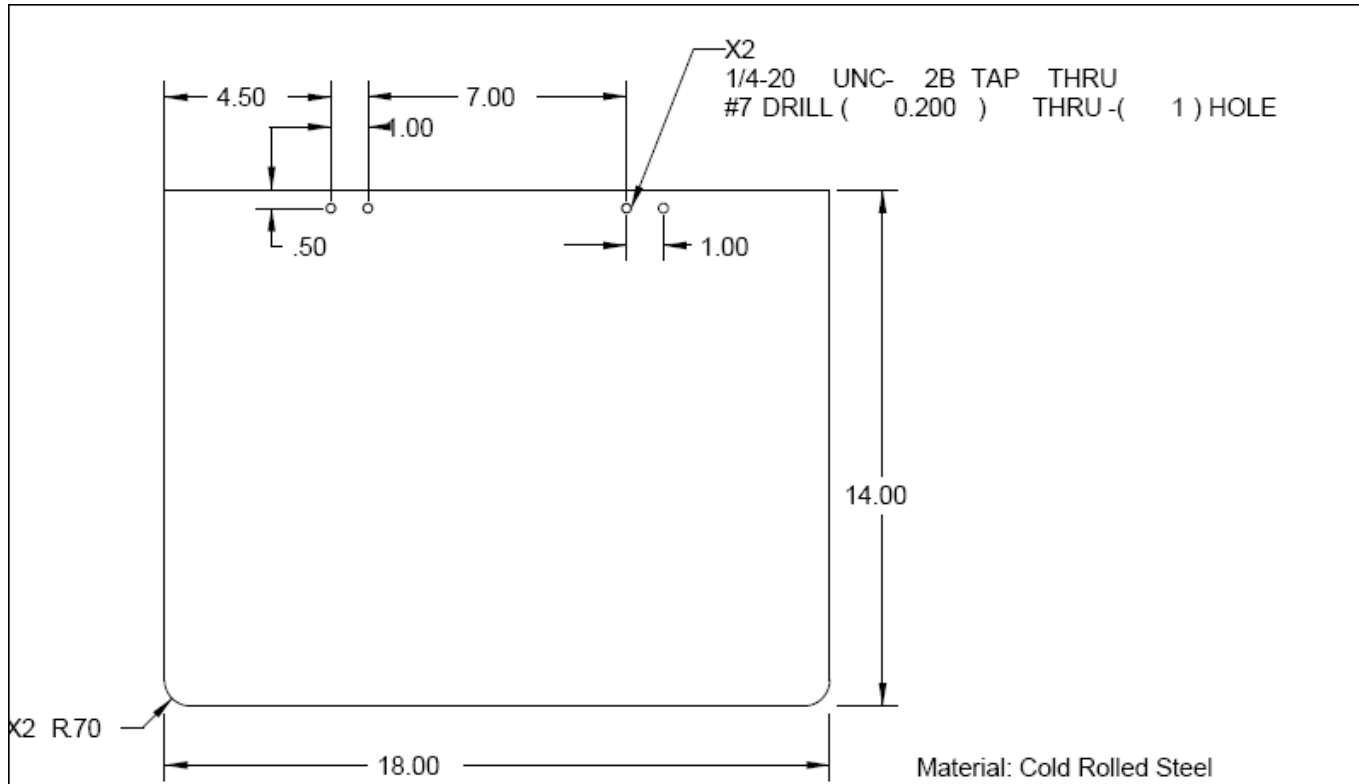


All Dimensions in inches
unless otherwise specified



Material: High Density Polyethylene

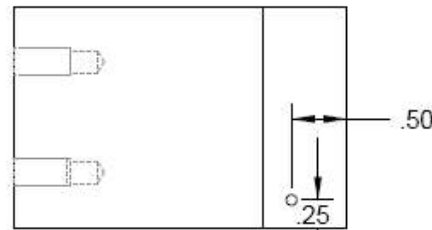
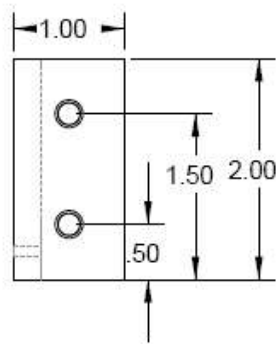
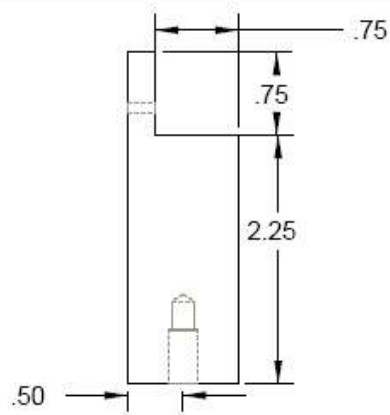
Tolerances - Unless Otherwise Specified X ±0.05 XX ±0.01 XXX ±0.005 Fractions ± 1/64 Angles ± 1°		Finger Tip for Micro-Goniophotometer			
		Tip			
	Signature	Date	Customer Drawing #		
Originated by			Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Drawn by					
Checked by					
Faculty Guide			DO NOT SCALE	RIT Drawing Number	SHEET
Customer					



All Dimensions in inches
unless otherwise specified

Sheet thickness = 0.0625

Tolerances - Unless Otherwise Specified X ±0.05 .XX ±0.01 .XXX ±0.005 Fractions ± 1/64 Angles ± 1°		Hatch for Micro-Goniophotometer		
		Hatch		
	Signature	Date	Customer Drawing #	
Originated by			Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering	
Drawn by				
Checked by				
Faculty Guide			DO NOT SCALE	RIT Drawing Number
Customer				SHEET

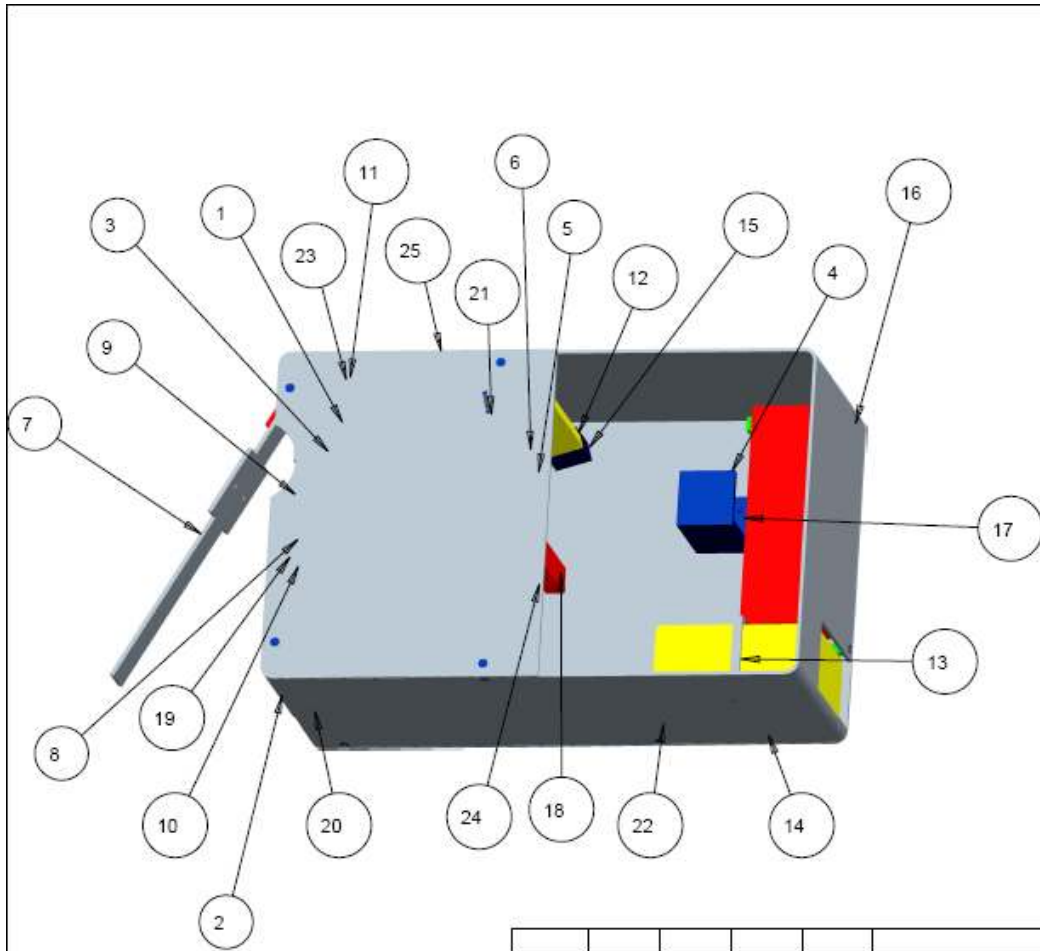


X2
 1/4-20 UNC- 2B TAP ∇ 0.480
 #7 DRILL (0.200) ∇ 0.750 - (1) HOLE

Material: High Density Polyethylene

All Dimensions in inches
 unless otherwise specified

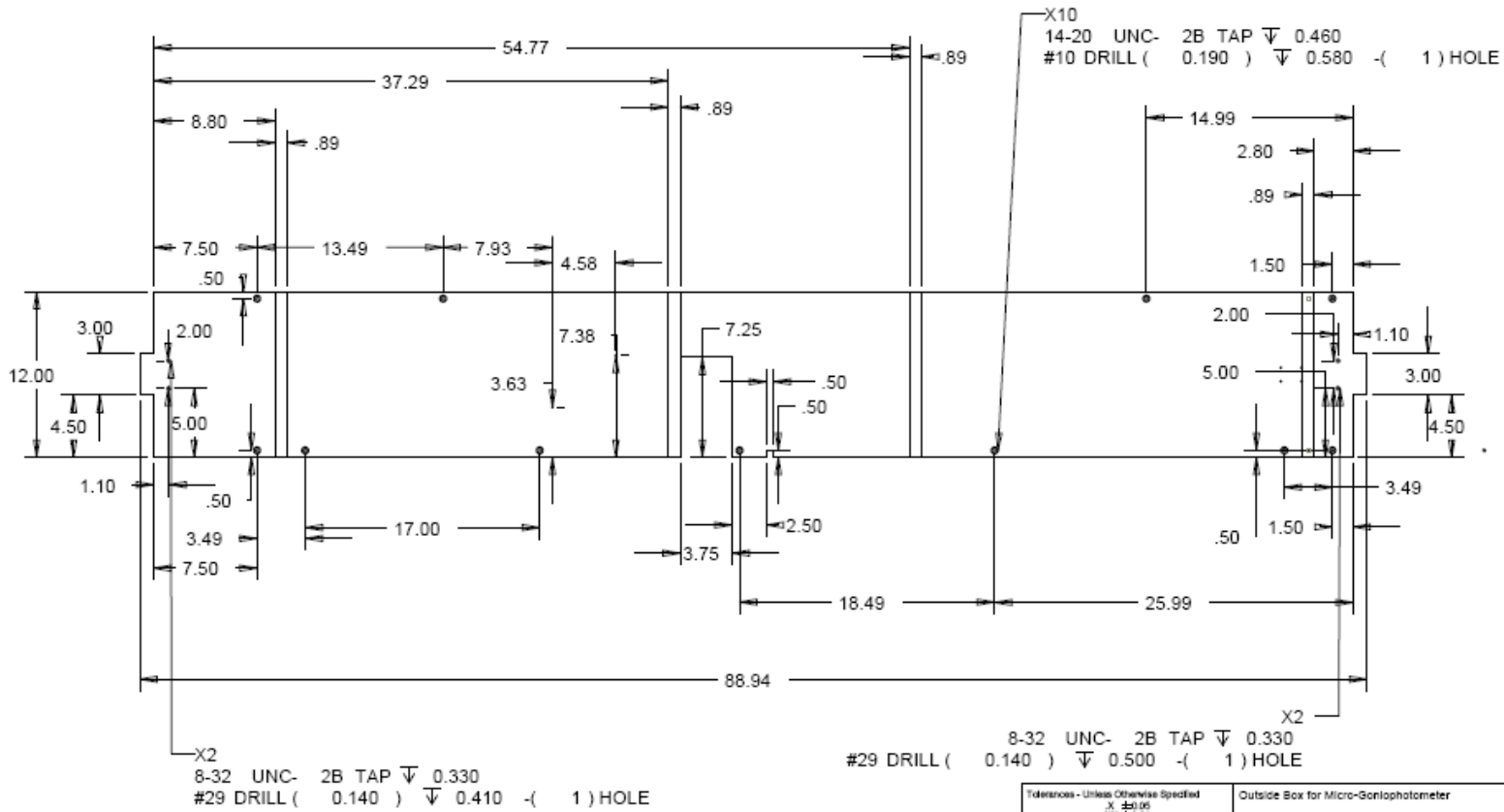
Tolerances - Unless Otherwise Specified X \pm 0.05 XX \pm 0.01 XXX \pm 0.005 Fractions \pm 1/64 Angles \pm 1°		Light Support for Micro-goniophotometer		
		Light Support		
Signature		Date		Customer Drawing #
Originated by		Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Drawn by				
Checked by				
Faculty Guide		DO NOT SCALE	RIT Drawing Number	SHEET
Customer				



ID	DESCRIPTION	QTY
1	BOTTOM	1
2	OUTSIDEBOX	1
3	BOX_BRACKET	11
4	CAMERA_MOUNT	1
5	COLOR_FILTER_SUPPORT	1
6	COLOR_FILTER_SLIDE	2
7	DOOR	1
8	FINGER	2
9	TIP	2
10	FINGERSUPPORT	2
11	HINGE	1
12	LIGHT	1
13	LIGHTBRACKET	2
14	LIGHTSUPPLY	1
15	LIGHTSUPPORT	1
16	POWERSUPPLY	1
17	SCREW_1	6
18	SCREW_2	4
19	SCREW_3	4
20	SCREW_4	24
21	SCREW_5	2
22	SCREW_6	2
23	SCREW_7	4
24	SERVOMOUNT	1
25	TOP	1

Tolerances - Unless Otherwise Specified			Assembly of Micro-Goniophotometer (view 2)		
X	±0.05		Micro-Goniophotometer		
XX	±0.01		Customer Drawing #1		
XXX	±0.005		Rochester Institute of Technology		
Fractions	± 1/64		Multi-Disciplinary Senior Design		
Angles	± 1'		Kate Gleason College of Engineering		
Originated by	Signature	Date	DO NOT SCALE		
Drawn by			RIT Drawing Number		
Checked by			SHEET		
Faculty Guide					
Customer					

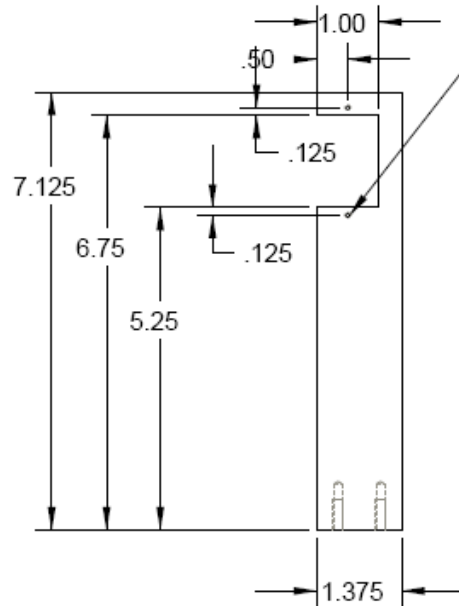
Revision	Date	Changed	Checked	Approved	Revision Description



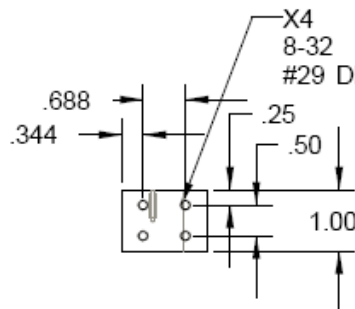
All dimensions in inches
unless otherwise specified

Material: Cold Rolled Steel
Sheet thickness = 0.0625 in

Tolerances - Unless Otherwise Specified		Outside Box for Micro-Goniophotometer	
X	±0.05		
XX	±0.01		
XXX	±0.005		
Fractions	± 1/64		
Angles	± 1°		
Signature	Date	Customer Drawing #	
Originated by		Rochester Institute of Technology	
Drawn by		Multi Disciplinary Senior Design	
Checked by		Kate Gleason College of Engineering	
Faculty Guide		DO NOT SCALE	RIT Drawing Number
Customer			SHEET



X2
 2-56 UNC- 2B TAP ∇ 0.450
 #50 DRILL (0.070) ∇ 0.500 -(1) HOLE

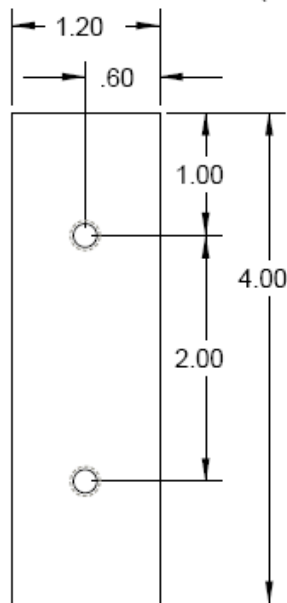
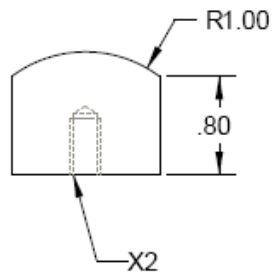


X4
 8-32 UNC- 2B TAP ∇ 0.500
 #29 DRILL (0.140) ∇ 0.750 -(1) HOLE

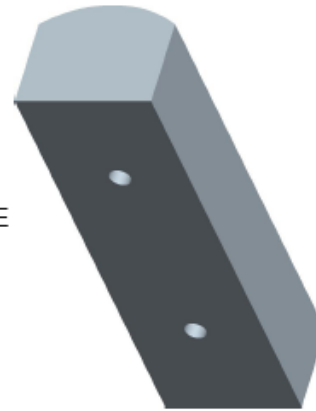
Material: High Density Polyethylene

All Dimensions in inches
 unless otherwise specified

Tolerances - Unless Otherwise Specified X \pm 0.05 XX \pm 0.01 XXX \pm 0.005 Fractions \pm 1/64 Angles \pm 1°		Servo Mount for micro-Goniophotometer All Dimensions in inches		
Signature		Customer Drawing #		
Date		Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Originated by		DO NOT SCALE	RIT Drawing Number	SHEET
Drawn by				
Checked by				
Faculty Guide				
Customer				



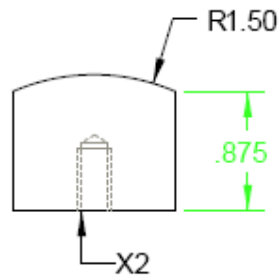
X2
 14-20 UNC- 2B TAP $\sqrt{0.460}$
 #10 DRILL (0.190) $\sqrt{0.500}$ - (1) HOLE



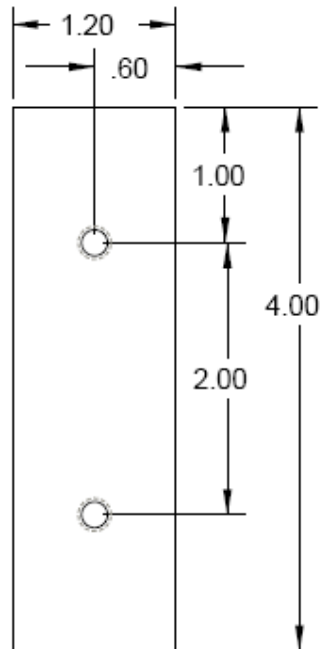
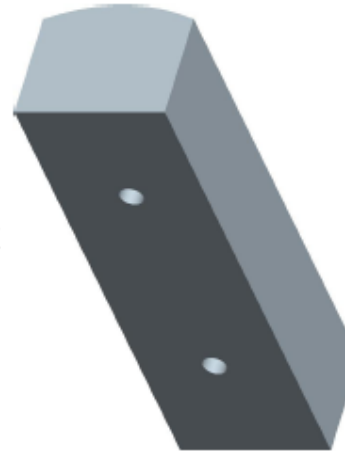
All Dimensions in inches
 unless otherwise specified

Material: Low Density Polyethylene

Tolerances - Unless Otherwise Specified X ± 0.05 XX ± 0.01 XXX ± 0.005 Fractions $\pm 1/64$ Angles $\pm 1^\circ$		Deformation tool for Micro-Goniophotometer Angular range = ± 36.9 degrees		
Signature		Date		Tool_2
Originated by		Customer Drawing #		
Drawn by		Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Checked by				
Faculty Guide				
Customer		DO NOT SCALE	RIT Drawing Number	SHEET



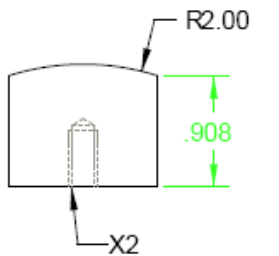
X2
 14-20 UNC- 2B TAP ∇ 0.460
 #10 DRILL (0.190) ∇ 0.500 - (1) HOLE



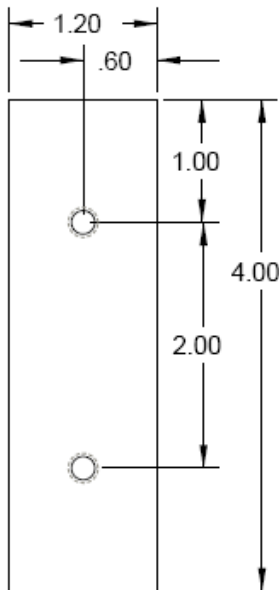
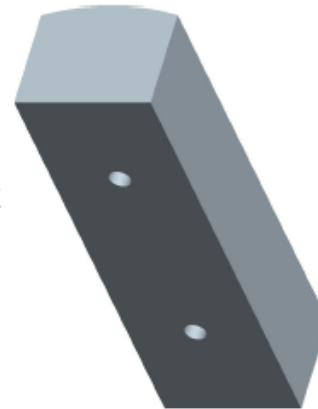
All Dimensions in inches
 unless otherwise specified

Material: Low Density Polyethylene

Tolerances - Unless Otherwise Specified X ± 0.05 XX ± 0.01 XXX ± 0.005 Fractions $\pm 1/64$ Angles $\pm 1^\circ$		Deformation tool for Micro-Goniophotometer Angular range = ± 23.6 degrees		
		Tool 3		
		Customer Drawing #		
Originated by	Signature	Date	Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering	
Drawn by				
Checked by				
Faculty Guide			DO NOT SCALE	RIT Drawing Number
Customer				SHEET



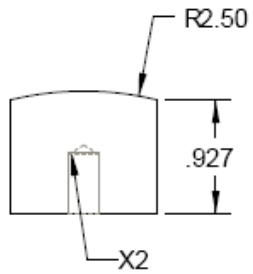
X2
 14-20 UNC- 2B TAP ∇ 0.460
 #10 DRILL (0.190) ∇ 0.500 - (1) HOLE



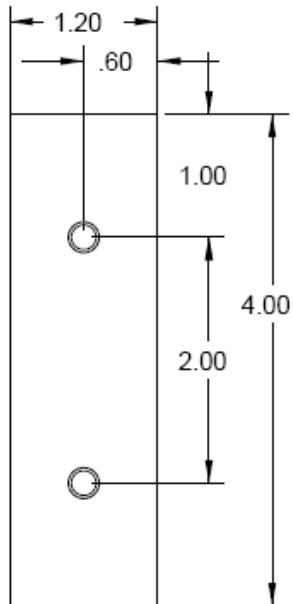
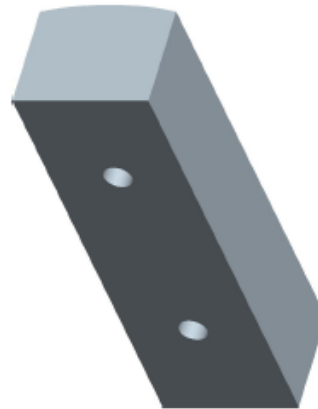
All Dimensions in inches
 unless otherwise specified

Material: Low Density Polyethylene

Tolerances - Unless Otherwise Specified X ± 0.05 XX ± 0.01 XXX ± 0.005 Fractions $\pm 1/64$ Angles $\pm 1^\circ$		Deformation tool for Micro-Goniophotometer Angular range = ± 17.5 degrees		
Signature		Date		Tool 4
Originated by		Customer Drawing #		
Drawn by		Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Checked by				
Faculty Guide		DO NOT SCALE	RIT Drawing Number	SHEET
Customer				



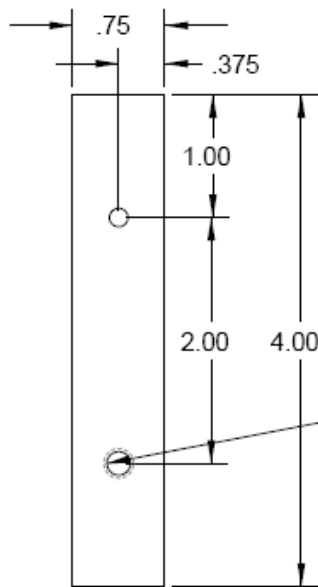
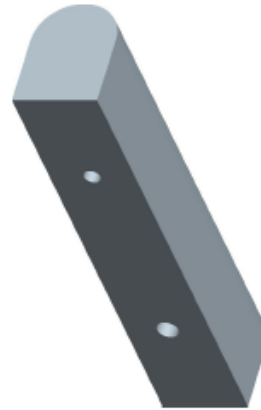
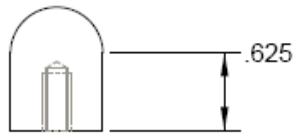
1/4-20 UNC- 2B TAP ∇ 0.480
 #7 DRILL (0.200) ∇ 0.500 - (1) HOLE



All Dimensions in inches
 unless otherwise specified

Material: Low Density Polyethylene

Tolerances - Unless Otherwise Specified X \pm 0.05 XX \pm 0.01 XXX \pm 0.005 Fractions \pm 1/64 Angles \pm 1°		Deformation Tool with Diameter=5in. Angular range = +/-13.9		
Signature		Date		Tool_5
Originated by		Customer Drawing #		
Drawn by		Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Checked by				
Faculty Guide		DO NOT SCALE	RIT Drawing Number	SHEET
Customer				

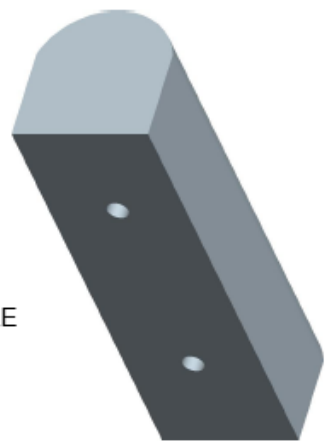
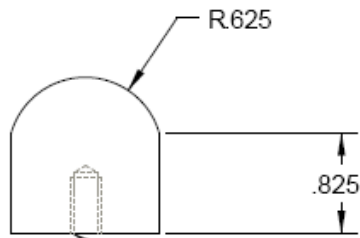


X2
 14-20 UNC- 2B TAP $\sqrt{\text{V}}$ 0.460
 #10 DRILL (0.190) $\sqrt{\text{V}}$ 0.500 - (1) HOLE

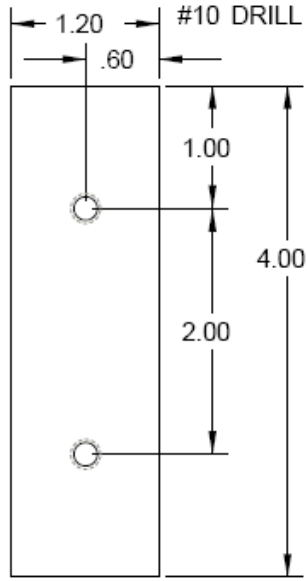
All Dimensions in inches
 unless otherwise specified

Material: Low Density Polyethylene

Tolerances - Unless Otherwise Specified X ± 0.05 XX ± 0.01 XXX ± 0.005 Fractions $\pm 1/64$ Angles $\pm 1^\circ$		Deformation tool for Micro-Goniophotometer Angular range = +/-90 degrees		
Signature		Date		
Originated by		Customer Drawing #		
Drawn by		Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Checked by				
Faculty Guide				
Customer		DO NOT SCALE	RIT Drawing Number	SHEET



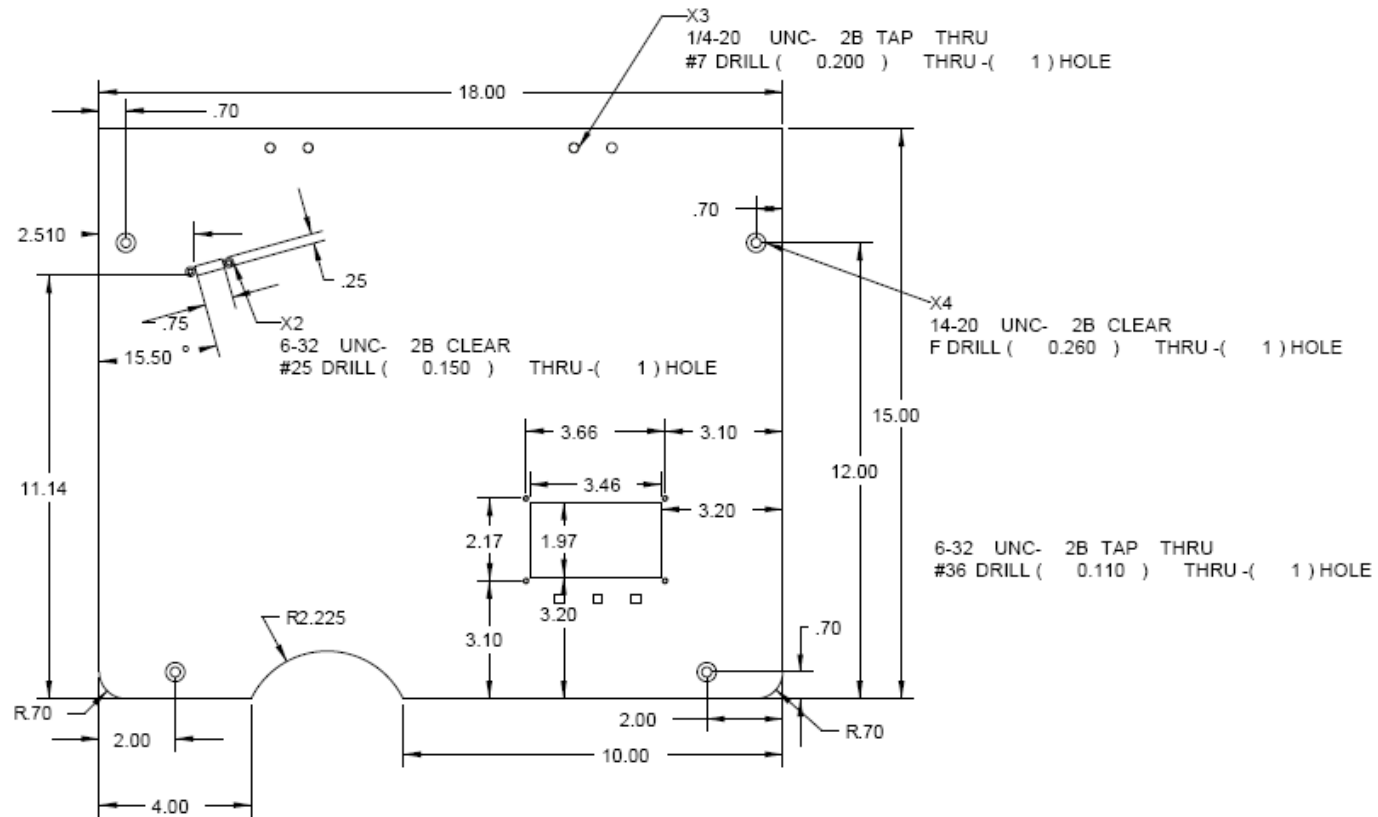
X2
 14-20 UNC- 2B TAP ∇ 0.460
 #10 DRILL (0.190) ∇ 0.500 - (1) HOLE



All Dimensions in inches
 unless otherwise specified

Material: Low Density Polyethylene

Tolerances - Unless Otherwise Specified X ±0.05 XX ±0.01 XXX ±0.005 Fractions ± 1/64 Angles ± 1°		Deformation tool for Micro-Goniophotometer Angular range = +/-73.7 degrees		
Signature		Date		Tool 125
Originated by		Customer Drawing #		
Drawn by		Rochester Institute of Technology Multi Disciplinary Senior Design Kate Gleason College of Engineering		
Checked by				
Faculty Guide				
Customer		DO NOT SCALE	RIT Drawing Number	SHEET



All Dimensions in inches unless otherwise specified

Material: Cold Rolled Steel

Sheet thickness: 0.15 in.

Tolerances - Unless Otherwise Specified		Top of Micro-Goniophotometer	
X	±0.05		
XX	±0.01		
XXX	±0.005		
Fractions	± 1/64	Top	
Angles	± 1'		
Signature	Date	Customer Drawing #	
Originated by		Rochester Institute of Technology	
Drawn by		Multi-Disciplinary Senior Design	
Checked by		Kate Gleason College of Engineering	
Faculty Guide		DO NOT SCALE	RIT Drawing Number
Customer			SHEET