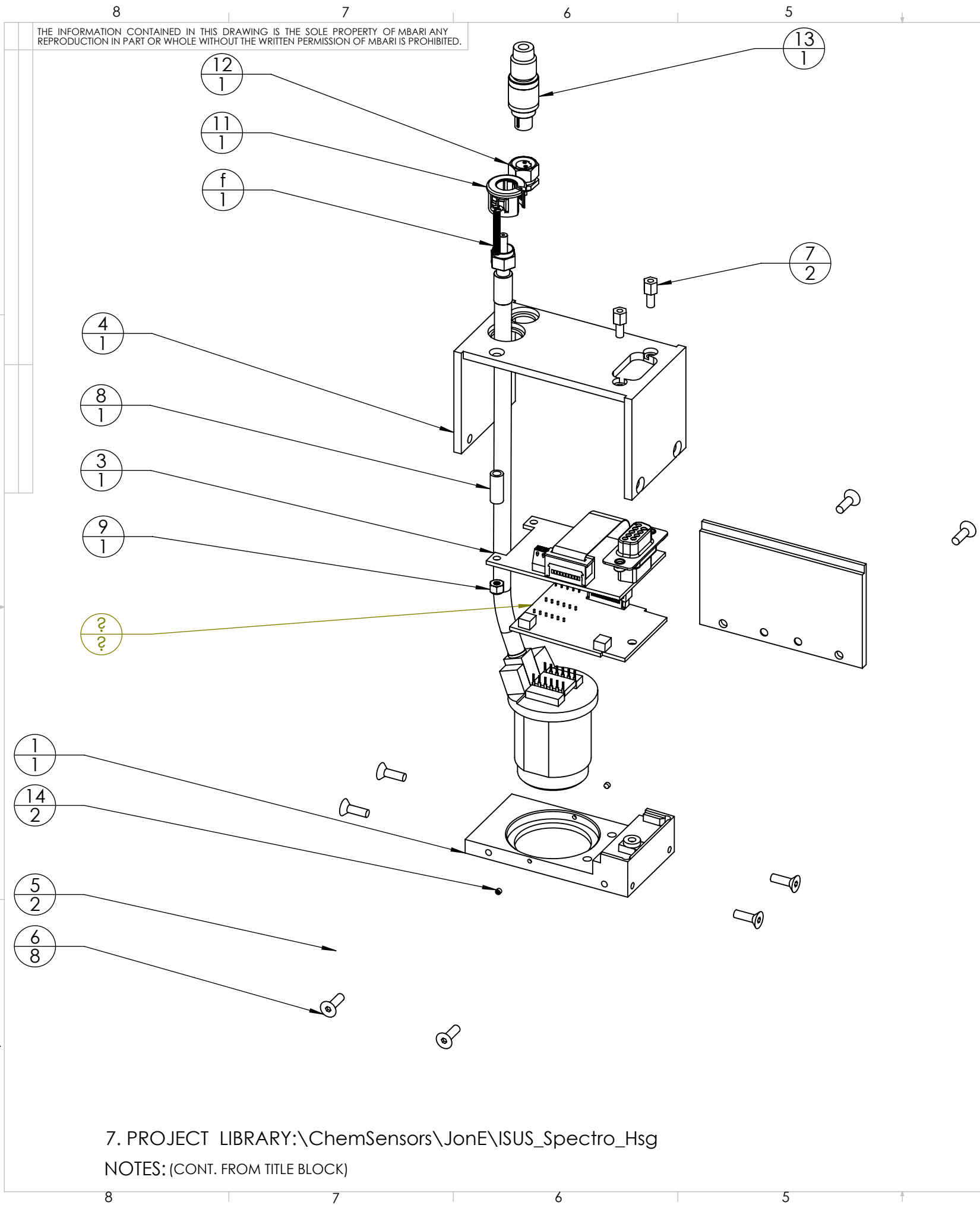




3 2 1

REVISIONS

INITIAL RELEASE

X/XX/01

J.E.

17 1 xxxxxxxx Isolation Washer

16 1 9 Pin Male Sub D Conn. (Mating Conn) A.01

15 1 20200713-MMS.UV-2385-760 Zeiss Spectrometer Zeiss

14 2 M2x0.4 x 2mm Hex Sckt Cone Pt. Set Screw

13 1 99-0071-100-02 Subminiature plug A.01 binder

12 1 09-0074-00-02 Subminiature Connector (Socket) A.01 Binder

11 1 PN8491 NYLON 6/6 Split BUSHING A.01 Keystone Nylon 6/6, BLACK UL 94V-2

f 1 92010A026 Flt Hd Phill M2.5 x 20 McMaster-Carr

9 1 93625A102 M2.5 Nylok Nut A.01 McMaster-Carr AISI 304

8 1 R30-6701294 #4 x 12mm Nylon Spacer A.01 HARWIN 6/6 Nylon

7 2 #7228 #4-40 Standard Jack Screw A.01 Keystone Steel

6 8 92125A128 FLT HD SOC SCREW M3x8 A.01 McMASTER-CARR

5 2 P-200780-09 ISUS Spectrometer Side Plate B MBARI Aluminum 6061-T6

4 1 P-200778-14 ISUS Spectrometer Case Conn End V3 B MBARI 6063-T52

3 1 Zeiss Digital A-D Board Assembly V4 A.01 SpectronicDevices.com

2 1 xxxxxxx Spectrometer Board Assembly

1 1 P-200779-09 ISUS Spectrometer Base A.01 ZEISS Aluminum 6061-T6

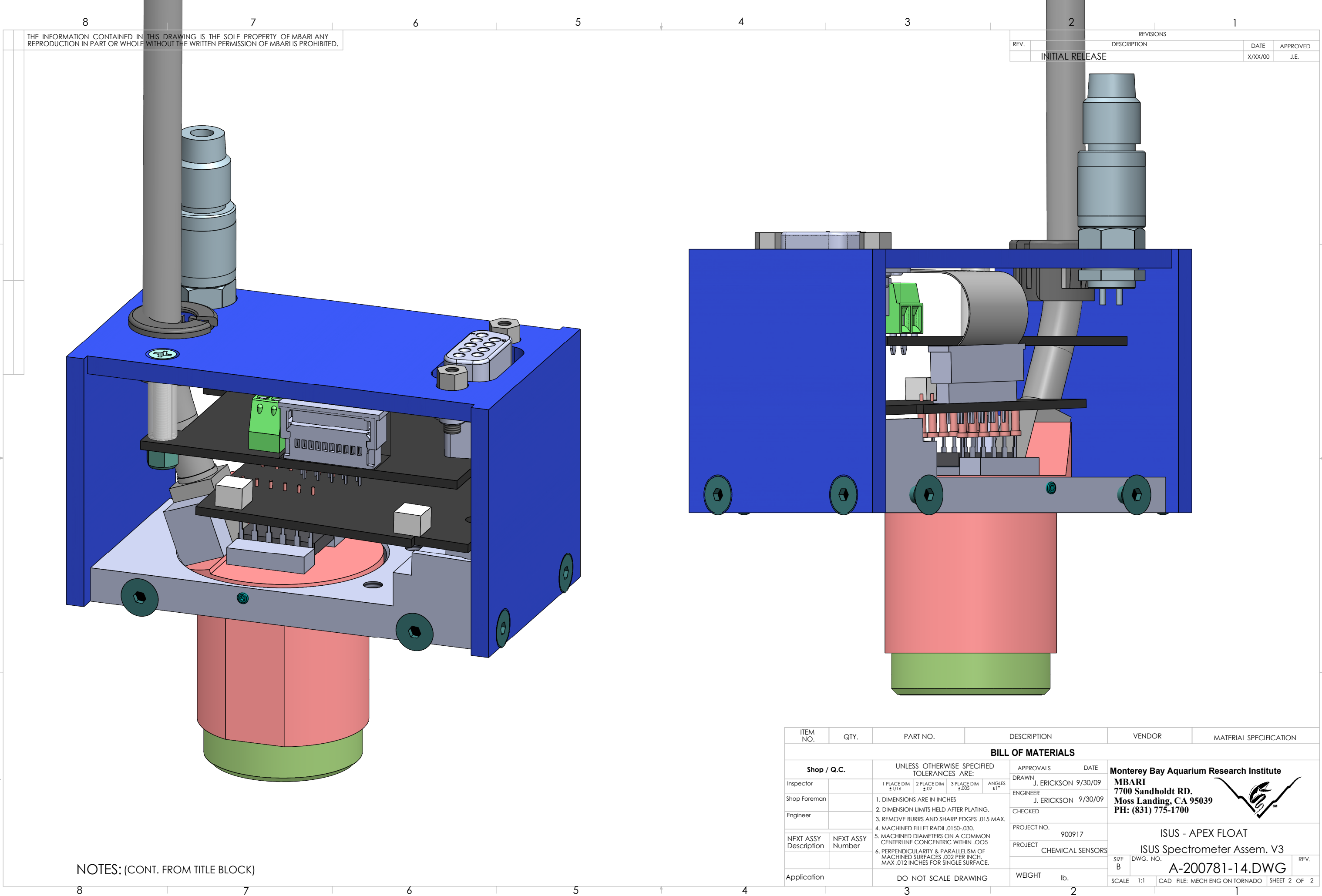
ITEM NO.	QTY.	Part_Number	DESCRIPTION	Revision	Vendor	MATERIAL
17	1	xxxxxxx	Isolation Washer			???????
16	1		9 Pin Male Sub D Conn. (Mating Conn)	A.01		
15	1	20200713-MMS.UV-2385-760	Zeiss Spectrometer		Zeiss	
14	2	M2x0.4 x 2mm	Hex Sckt Cone Pt. Set Screw			
13	1	99-0071-100-02	Subminiature plug	A.01	binder	
12	1	09-0074-00-02	Subminiature Connector (Socket)	A.01	Binder	
11	1	PN8491	NYLON 6/6 Split BUSHING	A.01	Keystone	Nylon 6/6, BLACK UL 94V-2
f	1	92010A026	Flt Hd Phill M2.5 x 20		McMaster-Carr	
9	1	93625A102	M2.5 Nylok Nut	A.01	McMaster-Carr	AISI 304
8	1	R30-6701294	#4 x 12mm Nylon Spacer	A.01	HARWIN	6/6 Nylon
7	2	#7228	#4-40 Standard Jack Screw	A.01	Keystone	Steel
6	8	92125A128	FLT HD SOC SCREW M3x8	A.01	McMASTER-CARR	
5	2	P-200780-09	ISUS Spectrometer Side Plate	B	MBARI	Aluminum 6061-T6
4	1	P-200778-14	ISUS Spectrometer Case Conn End V3	B	MBARI	6063-T52
3	1		Zeiss Digital A-D Board Assembly V4	A.01	SpectronicDevices.com	
2	1	xxxxxxx	Spectrometer Board Assembly			
1	1	P-200779-09	ISUS Spectrometer Base	A.01	ZEISS	Aluminum 6061-T6

BILL OF MATERIALS

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER	9/30/09
Engineer						CHECKED	
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	900917
		PROJECT	CHEMICAL SENSORS	WEIGHT	- none -	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
Application		DO NOT SCALE DRAWING				ISUS - APEX FLOAT ISUS Spectrometer Assem. V3	

SIZE B DWG. NO. A-200781-14.DWG

SCALE 1:1 CAD FILE: MECH ENG ON TORNADO SHEET 1 OF 2



THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.

NOTES: (CONT. FROM TITLE BLOCK)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	DRAWN J. ERICKSON	9/30/09
Shop Foreman		1. DIMENSIONS ARE IN INCHES	3 PLACE DIM ±.005	ENGINEER J. ERICKSON	9/30/09
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.	ANGLES ±1°	CHECKED	
NEXT ASSY Description	NEXT ASSY Number	3. REMOVE BURRS AND SHARP EDGES .015 MAX.		PROJECT NO.	900917
		4. MACHINED FILLET RADII .0150-.030.		PROJECT	CHEMICAL SENSORS
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		WEIGHT	lb.
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			
Application		DO NOT SCALE DRAWING			
				SIZE B	DWG. NO. A-200781-14.DWG
				SCALE 1:1	REV. J.E.
				CAD FILE: MECH ENG ON TORNADO	SHEET 2 OF 2

Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700



ISUS - APEX FLOAT
ISUS Spectrometer Assem. V3
A-200781-14.DWG