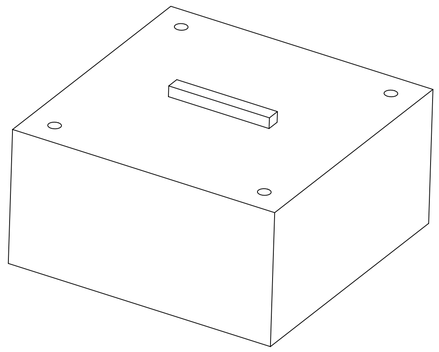
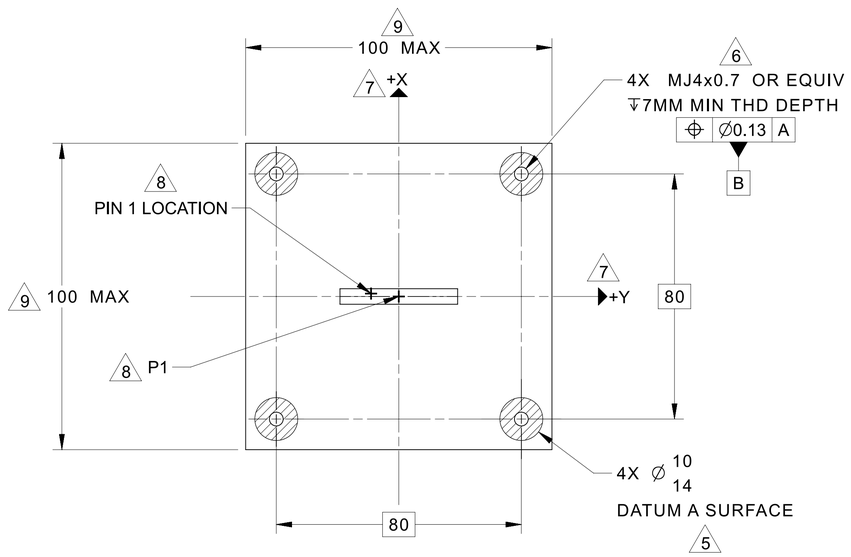
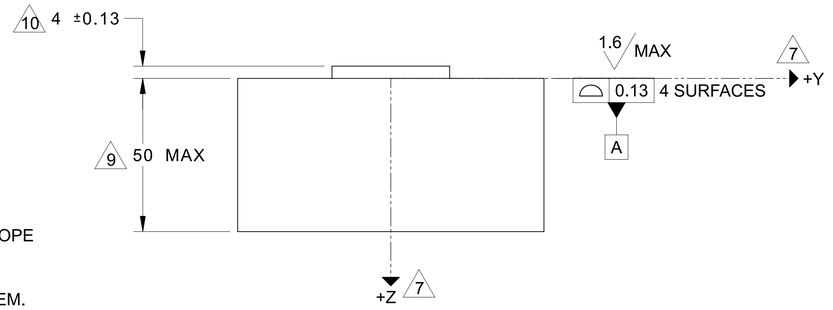
REVISION HISTORY						
REV	ZONE	DESCRIPTION	CAT	DWN	ENGR	SEE JPL DATA MANAGEMENT SYSTEM FOR APPROVAL SIGNATURES AND DATES
C	-	CHANGED EXPORT CONTROL MARKING TO NOT EXPORT CONTROLLED	II	JR	JR	



REFERENCE VIEW
SCALE NONE





8 TABLE 1: PAYLOAD CONNECTOR P1 PINOUT		
PIN NUMBER	SIGNAL DESCRIPTION	SIGNAL REFERENCE DESIGNATOR
1	BUS POWER	BUS
2	NO CONNECT	NC
3	POWER RETURN	RTN
4	RS-422 TRANSMIT P	TX_P
5	RS-422 RECEIVE P	RX_P
6	POWER RETURN	RTN
7	NO CONNECT	NC
8	NO CONNECT	NC
9	NO CONNECT	NC
10	NO CONNECT	NC
11	BUS POWER	BUS
12	NO CONNECT	NC
13	POWER RETURN	RTN
14	RS-422 TRANSMIT N	TX_N
15	RS-422 RECEIVE N	RX_N
16	POWER RETURN	RTN
17	NO CONNECT	NC
18	NO CONNECT	NC
19	NO CONNECT	NC
20	NO CONNECT	NC

10. P1 CONNECTOR MATING PLANE.

9. MAXIMUM STATIC ENVELOPE. ADDITIONAL DYNAMIC ENVELOPE BEYOND STATIC ENVELOPE PER INTERFACE DOCUMENT.

8. P1 CONNECTOR MOUNTING LOCATION ALIGNED WITH SPACECRAFT COORDINATE SYSTEM. P1 CONNECTOR PART NUMBER PER INTERFACE DOCUMENT. PINOUT PER TABLE 1.

7. SPACECRAFT COORDINATE SYSTEM. ORIGIN DEFINED BY DATUM A (MOUNTING SURFACE) AND DATUM B (MOUNTING THREAD HOLE CENTERS).

6. ACCEPTABLE MOUNTING/INTERFACE THREADS:
A) THREADS OF ALUMINUM 7075-T7351 OR STRONGER
B) THREADED KEENSERT P/N KNCM4x0.7 OR EQUIVALENT
C) THREADED HELICOIL P/N MA3279-104 OR EQUIVALENT

5. SPACECRAFT MOUNTING/BEARING INTERFACE SURFACE.
EXTERIOR FINISH FOR MOUNTING/BEARING SURFACES PER INTERFACE DOCUMENT.

4. PERMANENTLY MARK CONNECTOR REFERENCE DESIGNATOR ON EXTERIOR OF ASSEMBLY ADJACENT TO CONNECTOR PER JPL SPECIFICATION DocID: 35256 OR EQUIVALENT.

3. THE FINAL MASS PROPERTIES SHALL BE DOCUMENTED ON THE MASS PROPERTIES REPORTING FORM PROVIDED AT HRCR/DELIVERY. FINAL REPORTED MEASURED MASS SHALL BE WITHIN +/-5 GRAMS. THE MOMENTS AND PRODUCTS OF INERTIA REPORTED SHALL BE ABOUT THE CENTER OF MASS AND WITH RESPECT TO THE COORDINATE FRAME SHOWN AT THE CENTER OF MASS.

2. PERMANENTLY MARK EXTERIOR OF ASSEMBLY WITH PROJECT NAME, PART NUMBER, SERIAL NUMBER, REFERENCE DESIGNATOR, PART NAME, MANUFACTURER'S CAGE NUMBER, AND MANUFACTURER'S PART NUMBER IN AREA INDICATED PER MIL-STD-130.

1. THIS IS THE INTERFACE DRAWING FOR THE COMMON LUNAR PAYLOAD. PAYLOADS SHALL MEET THE REQUIREMENTS OF THIS INTERFACE DRAWING AND THE PAYLOAD INTERFACE DOCUMENT, JPL DOCUMENT NUMBER TBD.

NOTES: UNLESS OTHERWISE SPECIFIED

INTERFACE DRAWING

THIS DOCUMENT HAS BEEN REVIEWED AND DETERMINED NOT TO CONTAIN EXPORT CONTROLLED TECHNICAL DATA.

MATERIAL

METRIC

THIRD ANGLE PROJECTION

NEXT ASSEMBLY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

LINEAR TOLERANCES:

0-6	± 0.1
OVER 6-30	± 0.2
OVER 30-120	± 0.3
OVER 120-315	± 0.5
OVER 315-1000	± 0.8
OVER 1000	± 1.2

ANGULAR TOLERANCES: ± 0.5°

SURFACE ROUGHNESS (MICROMETERS)

DO NOT SCALE DRAWING
INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009
INTERPRET DWG PER ASME Y14.100

CONTRACT NO

DWN	J. RAVICH
ENGR	J. RAVICH

SEE JPL DATA MANAGEMENT SYSTEM FOR APPROVAL SIGNATURES AND DATES

JET PROPULSION LABORATORY
CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA, CA 91109

TITLE

COMMON LUNAR PAYLOAD

SIZE	DAI	DWG NO	REV
A1	23835	10353889	C
SCALE: 1/1		SHEET 1 OF 1	

NX GENERATED

REV 05/2018

DBASE NAME: 10353889

Released For Fin... 2020-10-08 11:55:24 by Ravich, Joshua E Designer Review;Navid, Majid A DMG Verification;Chavez, Amber DMG Review;Ravich, Joshua E E Review