REVISION HISTORY					
REV	DESCRIPTION	CAT	DWN	ENGR	SEE JPL DATA MANAGEMENT SYSTEM FOR APPROVAL SIGNATURES AND DATES.
A	---------- INITIAL RELEASE ----------	II	-	-	

NOTES: UNLESS OTHERWISE SPECIFIED

1. THE FINISHED PRINTED WIRING BOARD SHALL MEET THE REQUIREMENTS OF IPC-A-600 (LATEST REVISION).
2. THIS DOCUMENT AND RELATED ARTWORK ARE COMPUTER GENERATED. ALL MODIFICATIONS ARE TO BE PERFORMED TO THE ORIGINAL DATABASE ON FILE.
3. THIS IS A REDUCED DIMENSION DRAWING. ADDITIONAL DIMENSIONS NEEDED TO DEFINE THE TRUE PROFILES OF THIS PART SHALL BE OBTAINED FROM THE MASTER CAD MODEL DATABASE NAMED 20019300_A-CAM.ZIP. DIMENSIONS AND TOLERANCES SHALL BE INTERPRETED PER ASME Y14.5M.
4. MATERIAL: 1 OZ COPPER CLAD, SINGLE SIDED, 1.5 mm THICK EPOXY/WOVEN GLASS LAMINATE PER IPC-4101/L 26-1500-C1/O
5. FABRICATE AND INSPECT PRINTED WIRING BOARD PER IPC-6012D, CLASS 2, TYPE 1.
6. APPLY SOLDER MASK, ITEM 3, TO TOP ONLY, OVER BARE COPPER, COMPONENT PADS TO BE FREE FROM BLEEDING OR MISREGISTRATION.
7. AFTER APPLICATION OF SOLDER MASK, PLATE ALL EXPOSED COPPER WITH HASL.
8. LEGEND OVER SOLDER MASK ON TOP SIDE OF PWB ONLY USING WHITE EPOXY INK, ITEM 4. LEGEND MARKING SHALL NOT BE NEARER THAN 0.127 mm TO ANY PAD. CHARACTER HEIGHT SHALL BE 0.75 mm MINIMUM.
9. ELECTRICAL TEST: CONTINUITY SHORT AND OPEN TESTING ON ALL AVAILABLE EXPOSED TERMINAL PADS USING IPC-D-356A NETLIST DATA. CONTINUITY TEST SHALL BE AT 5 OHMS MAX. SHORTS TESTING SHALL BE PERFORMED AT 250V. MINIMUM ISOLATION OF 100M OHMS.
10. MAXIMUM BOW AND TWIST SHALL NOT EXCEED 0.75%.

QTY REQD	-1	ITEM NO	REFDES	DAI	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL OR NOTE
	AR	4			ETHONE 50-100R CATALYST 9	INK, WHITE EPOXY	IPC-4781	8
	AR	3			PROBIMER 52 OR TAIYO PSR-4000	SOLDERMASK, LPI	IPC-SM-840 CL A	6
	AR	1				GLASS BASE EPOXY RESIN CU CLAD 1 OZ	IPC-4101/26	4

PARTS LIST

20019301	TMT
NEXT ASSEMBLY	USED ON
APPLICATION	

CONTRACT NO

DWN	D. PALMER
ENGR	D. PALMER

SEE JPL DATA MANAGEMENT SYSTEM FOR APPROVAL SIGNATURES AND DATES

JET PROPULSION LABORATORY

CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA, CA 91109

TITLE

PRINTED WIRING BOARD,
OFFLOAD HALL SENSOR BOARD

SIZE	DAI	DWG NO	REV
B	23835	20019300	A

SCALE: 2/1 | UNCLASSIFIED | SHEET 1 OF 4

REV 04/2019

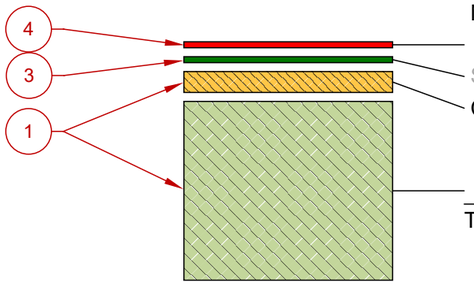
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DO NOT SCALE DRAWING
INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5 2009
INTERPRET DWG PER ASME Y14.100

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Layer Stack Legend



Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.010mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.035mm		Signal	GTL
		1.500mm	*FR-4*	*Dielectric*	

Total thickness: 1.545mm

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SEE SHEET 1 FOR EXPORT COMPLIANCE STATEMENT AND/OR PROPRIETARY INFORMATION

SIZE	DAI	DWG NO	REV
B	23835	20019300	A

SCALE: 2/1 | UNCLASSIFIED | SHEET 2 OF 4

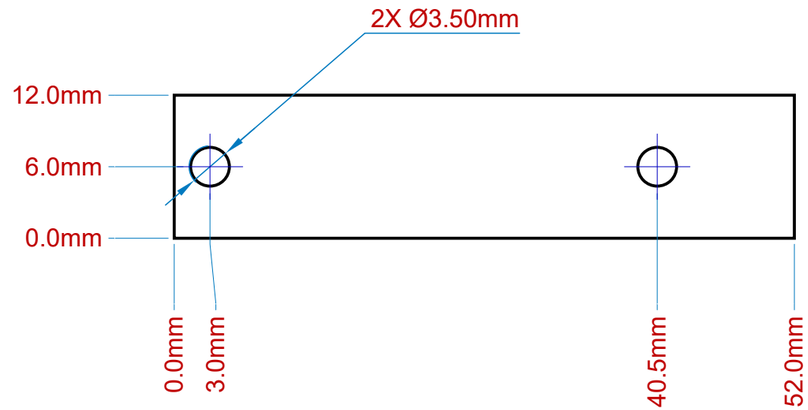
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JPL_B_SH2

MECHANICAL DIMENSIONS (Scale 2:1)



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SIZE	DAI	DWG NO	REV
B	23835	20019300	A

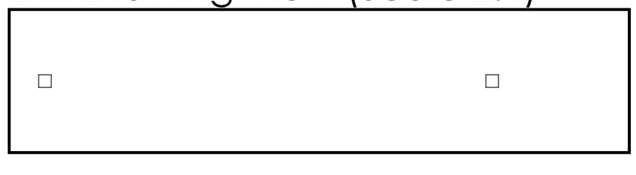
SCALE: 2/1	UNCLASSIFIED	SHEET 3 OF 4

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Drill Drawing View (Scale 2:1)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
□	2	3.50mm	Non-Plated	+/-0.05mm
	2 Total			

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SIZE	DAI	DWG NO	REV
B	23835	20019300	A

SCALE: 2/1 | UNCLASSIFIED | SHEET 4 OF 4

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