

NOTES: UNLESS OTHERWISE SPECIFIED

1. THE FINISHED PRINTED WIRING BOARD SHALL MEET THE REQUIREMENTS OF IPC-A-600 (LATEST VERSION).
2. THIS DOCUMENT AND RELATED ARTWORK ARE COMPUTER GENERATED. ALL MODIFICATIONS ARE TO BE PERFORMED TO THE ORIGINAL DATABASE, 20019324_A-DESIGN.zip.
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 20019324_A-CAM.ZIP. DIMENSIONS AND TOLERANCES SHALL BE INTERPRETED PER ASME Y14.5M. ALL DIMENSIONS ARE IN mm.
4. FABRICATE AND INSPECT PRINTED WIRING BOARD PER IPC-6012 (LATEST VERSION), CLASS 2, TYPE 1.
- 5

MATERIAL: ISOLA 370HR, 1 OZ COPPER CLAD, SINGLE-SIDED, 1.5 mm THICK EPOXY/WOVEN GLASS LAMINATE PER IPC-4101/L 126-1500-C1/O
6. SURFACE FINISH TO BE ELECTROLESS NICKEL / IMMERSION GOLD (ENIG) PLATING PER IPC-4552A. ALL PLATED HOLES AND CONDUCTIVE SURFACES SHALL BE PLATED WITH 0.025 mm COPPER MINIMUM. ALL Ni/Au PLATED AREAS SHOULD HAVE MINIMUM THICKNESS OF 3µm FOR Ni AND 0.051 µm FOR Au.
- 7

ALL HOLES SPECIFIED IN THE DRILL CHART ARE FINISHED HOLE DIAMETERS. HOLE TOLERANCE +/- 0.051 mm FOR NON-PLATED HOLES AND +/- 0.076 mm FOR PLATED HOLES.
8. FABRICATION TOLERANCES: END PRODUCT TRACE WIDTHS AND LANDS SHALL NOT VARY MORE THAN THE SMALLER OF 0.051 mm OR 10% OF THE TRACE WIDTH FROM THE GERBER DATA.
- 9

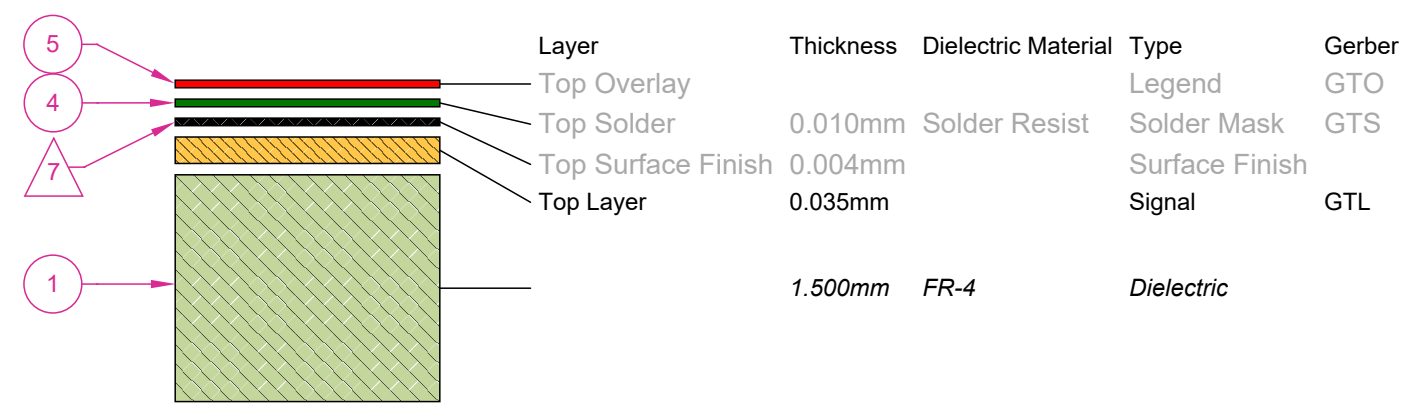
SOLDERMASK: PHOTO-IMAGED LIQUID POLYMER, GREEN COLOR, ITEM 4, ON TOP SIDE OF BOARD ONLY IN ACCORDANCE WITH IPC-SM-840, TYPE B, CLASS 2, OVER BARE COPPER.
- 10

LEGEND OVER SOLDER MASK ON TOP SIDE OF BOARD ONLY USING WHITE NON-CONDUCTIVE 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.
11. BOW AND TWIST: SHALL NOT EXCEED 0.75%
12. 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 20M OHMS.

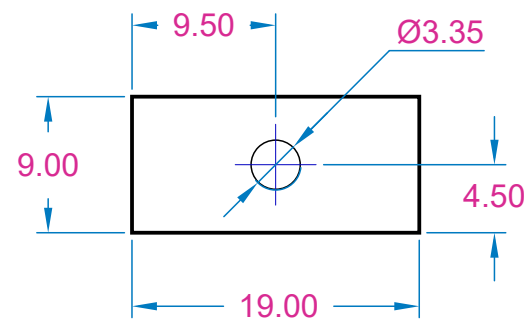
REVISION HISTORY					
REV	DESCRIPTION	CAT	DWN	ENGR	SEE JPL DATA MANAGEMENT SYSTEM FOR APPROVAL SIGNATURES AND DATES
A	----- INITIAL RELEASE -----	II	—	—	

	AR	5			ETHONE 50-100R CATALYST 9	INK, WHITE EPOXY	IPC-4781	<div>10</div>
	AR	4			PROBIMER 52 OR TAIYO PSR-4000	SOLDERMASK, LPI	IPC-SM-840 CL A	<div>9</div>
		3						
		2						
	AR	1			370HR	GLASS BASE EPOXY RESIN CU CLAD 1 OZ /	IPC-4101/26	<div>5</div>
	-1	ITEM NO	REFDES	DAI	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL OR NOTE
	QTY REQD							
PARTS LIST								
			CONTRACT NO			JET PROPULSION LABORATORY		
			DWN	D. PALMER		PRINTED WIRING BOARD, ELECTRONIC ID		
			ENGR	D. PALMER				
			SEE JPL DATA MANAGEMENT SYSTEM FOR APPROVAL SIGNATURES AND DATES					
	20019325	TMT				SIZE	DAI	DWG NO
	NEXT ASSEMBLY	USED ON				B	23835	20019324
	APPLICATION					REV	A	
			SCALE: 2/1			SHEET 1 OF 2		

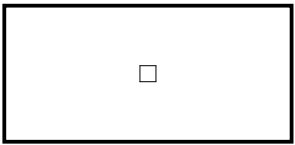
LAYER STACK LEGEND



DIMENSIONS (Scale =2/1)



DRILL DRAWING VIEW (Scale =2/1)



DRILL TABLE

Symbol	Count	Hole Size	Plated	Hole Tolerance
□	1	3.35mm	Non-Plated	
	1 Total			

SEE SHEET 1 FOR EXPORT COMPLIANCE STATEMENT AND/OR PROPRIETARY INFORMATION	SIZE B	DAI 23835	DWG NO 20019324	REV A
	SCALE: 2/1		SHEET 2 OF 2	