

11. 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.
10. BOW AND TWIST: SHALL NOT EXCEED .007 IN PER INCH
9. SILKSCREEN: BOTH SIDES WITH WHITE NON–CONDUCTIVE EPOXY INK. LANDS AND EXPOSED PLATED AREAS TO BE FREE OF INK.
8. SOLDER MASK: PHOTO–IMAGED LIQUID POLYMER, GREEN COLOR, ON BOTH SIDES OF BOARD IN ACCORDANCE WITH IPC–SM–840, TYPE B, CLASS 2, OVER BARE COPPER.
7. FABRICATION TOLERANCES: END PRODUCT TRACE WIDTHS AND LANDS SHALL NOT VARY MORE THAN THE SMALLER OF .002 IN OR 10% OF THE TRACE WIDTH FROM THE GERBER DATA.
6. ALL HOLES SPECIFIED IN THE DRILL CHART ARE FINISHED HOLE DIAMETERES. HOLE TOLERANCE +/- 0.002 IN FOR NON–PLATED HOLES AND +/- 0.003 IN FOR PLATED HOLES.
5. SURFACE FINISH TO BE ELECTROLESS NICKEL/IMMERSION GOLD (ENIG) PLATING PER IPC–6013. ALL PLATED HOLES AND CONDUCTIVE SURFACES SHALL BE PLATED WITH 0.001 IN COPPER MINIMUM. ALL Ni/Au PLATED AREA SHOULD HAVE MINIMUM THICKNESS 0.0001 IN FOR Ni AND 0.000002 IN FOR Au.
4. MATERIAL: .062 IN (+/- 10%) THICK GLASS EPOXY, NATURAL COLOR, LAMINATED NEMA GRADE FR4.
3. FABRICATE AND INSPECT PER IPC–6012.
2. THIS DOCUMENT AND RELATED ARTWORK ARE COMPUTER GENERATED. CHANGES ARE TO BE PERFORMED ON THE ORIGINAL DATABASE IN SECTION 383.
1. THE FINISHED PRINTED WIRING BOARD SHALL MEET THE REQUIREMENTS OF IPC–A–600–X (LATEST REVISION).

NOTES: UNLESS OTHERWISE SPECIFIED

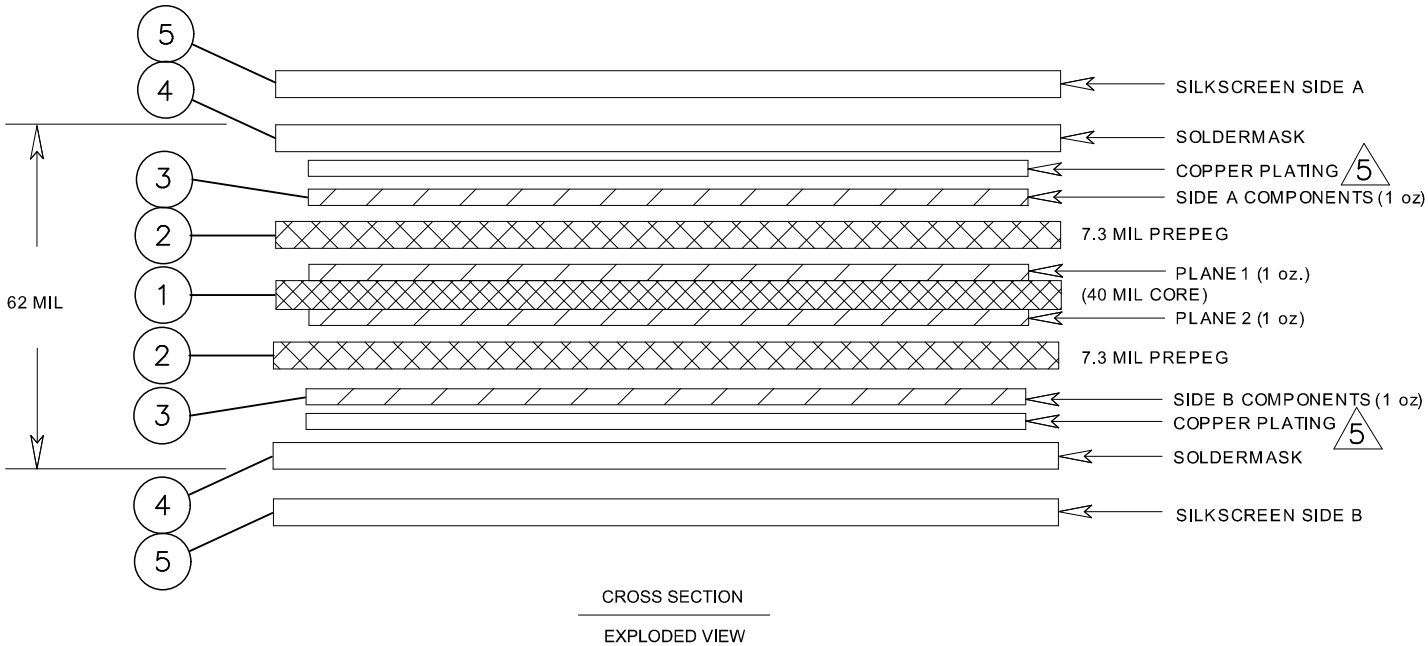
THIS DOCUMENT HAS BEEN REVIEWED AND DETERMINED NOT TO CONTAIN ITAR CONTROLLED TECHNICAL DATA.

10398524	TMT
NEXT ASSEMBLY	USED ON
APPLICATION	

	AR	5			SERIES M. CATALYST 20/A	INK, WHITE EPOXY	IPC–4781	9
	AR	4			LPI, SM P41	SOLDERMASK, PROBIMER 52	IPC–SM–840 CL A	8
	AR	3			3 CU E3	COPPER FOIL, 1 OZ.	IPC–4562	
	AR	2			P 26–E2116 TW RE VC	GLASS BASE EPOXY RESIN PREPREG, B–STAGE	IPC–4104/26	
	AR	1			L 26–0400–C1/C1	GLASS BASE EPOXY RESIN CU CLAD 1 OZ / 1 OZ	IPC–4104/26	
		ITEM NO	REF DES	CAGE CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL OR NOTE
QTY REQD								

MATERIAL:		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES LINEAR TOLERANCES:  .XX .03 .XXX .010  ANGULAR TOLERANCES: 0.5  MACHINE FINISH ✓  DO NOT SCALE DRAWING INTERPRET DWG PER ASME Y14.100		CONTRACT NO _____  APPD _____ DATE _____  DWN CHK STRUCT MATL THRM CONT  ENGR DSGN SUPV		JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY PASADENA, CA 91109  EDGE SENSOR CONNECTOR BOARD PWB FABRICATION	
MATERIAL PER SPECIFICATION		THIRD ANGLE PROJECTION		SEE PDMS FOR APPROVAL SIGNATURES AND DATES		SIZE CAGE CODE REV B 23835 10398523 B	
10398524 TMT		NEXT ASSEMBLY USED ON		SCALE: 1/1 UNCLASSIFIED SHEET 1 OF 14			

REVISION HISTORY															
LTR	DESCRIPTION				DWN	CHK	STRUCT	MATL	THRM CONT			ENGR	DSGN SUPV	DATA MGT	RELEASE DATE
A	_____ INITIAL RELEASE _____				CLASS E	SEE PRODUCT DATA MANAGEMENT SYSTEM (PDMS) FOR APPROVAL SIGNATURES AND DATES									
B	FIXED LVDS ENABLES AND PREPARED FOR UNLIMITED RELEASE.				E	SEE PRODUCT DATA MANAGEMENT SYSTEM (PDMS) FOR APPROVAL SIGNATURES AND DATES									



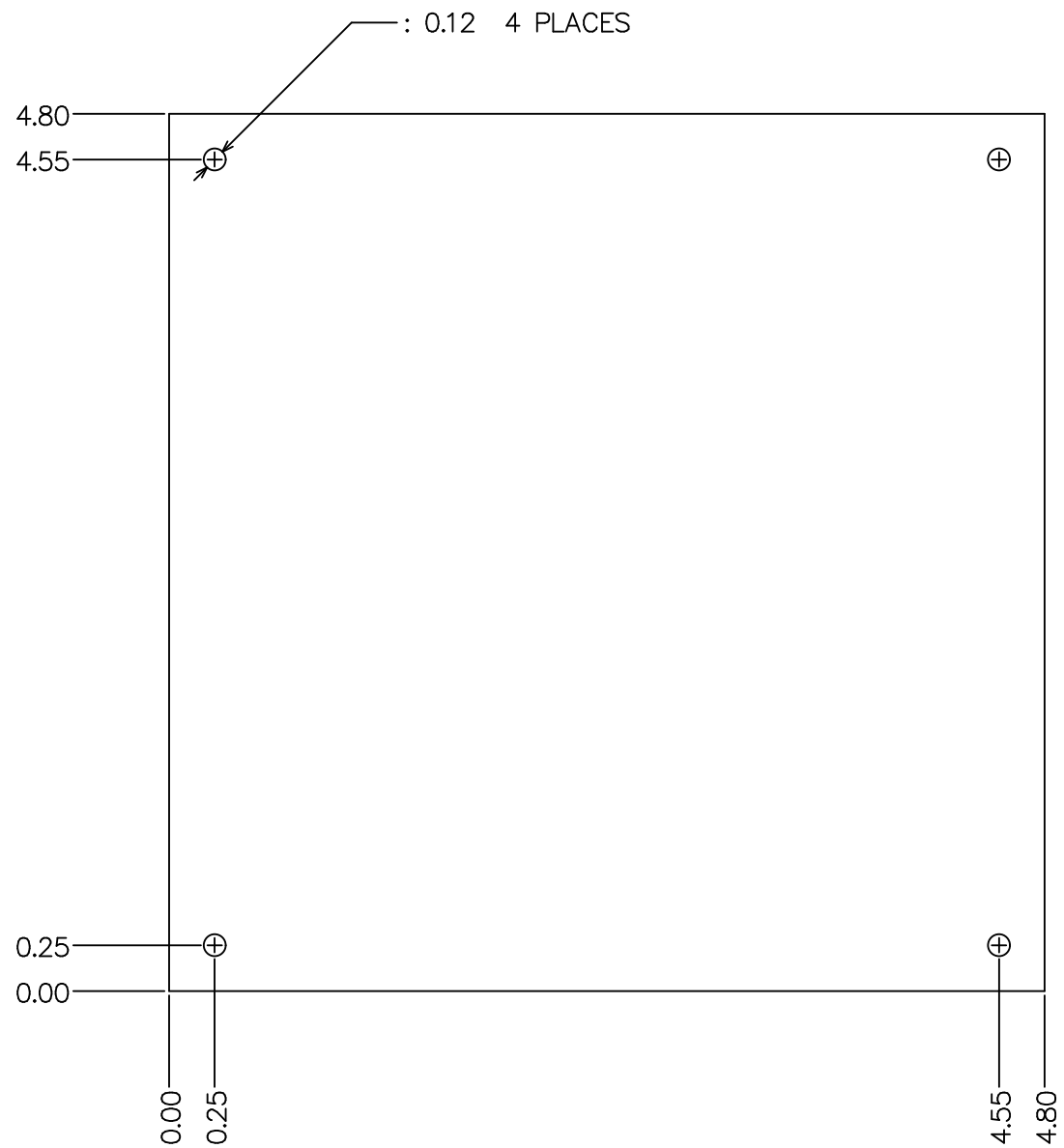
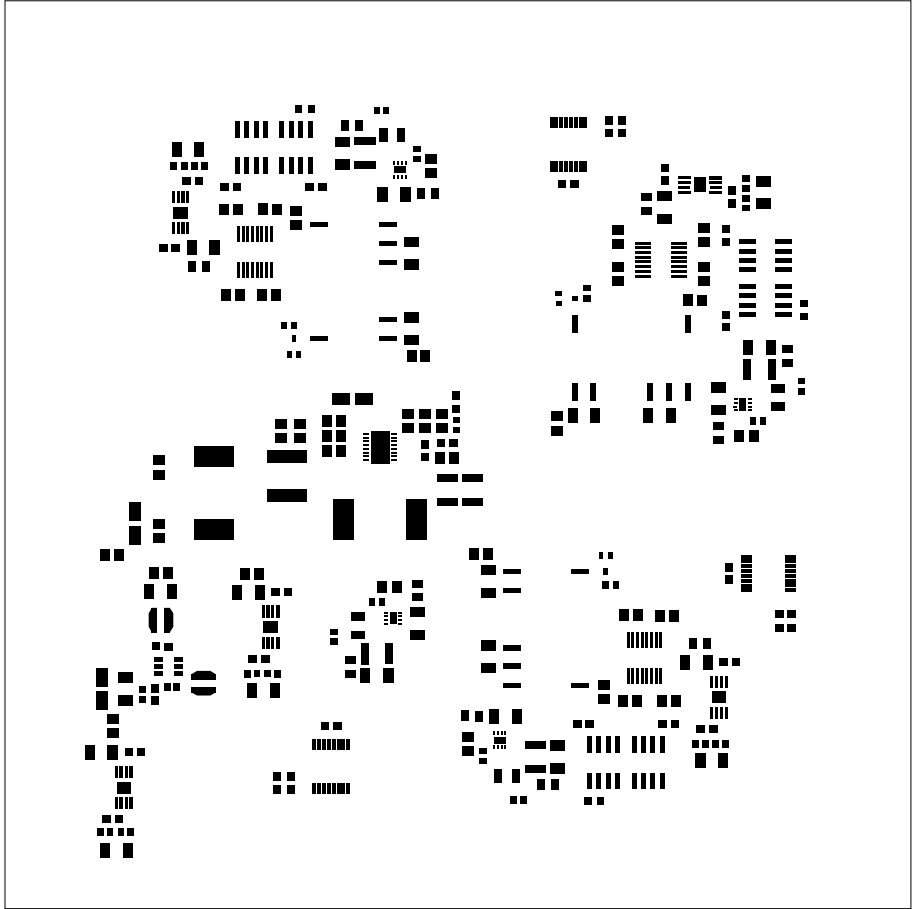


TABLE A / ARTWORK FILE DESIGNATION				
SN NO.	FILE:	LOGICAL LAYER	PHYSICAL LAYER	DESCRIPTION
4	10398523.GTP	-	OUTER LAYER 1	PASTE MASK SIDE A
5	10398523.GTO	-	OUTER LAYER 2	OVERLAY SIDE A
6	10398523.GTS	-	OUTER LAYER 3	SOLDER MASK SIDE A
7	10398523.GTL	COPPER SIDE A	OUTER LAYER COPPER	COMPONENTS SIDE A
8	10398523.GP1	COPPER LAYER 2	INNER LAYER	PLANE - GND
9	10398523.GP2	COPPER LAYER 3	INNER LAYER	PLANE - SPLIT
10	10398523.GBL	COPPER SIDE B	OUTER LAYER COPPER	COMPONENTS SIDE B
11	10398523.GBS	-	OUTER LAYER 4	SOLDER MASK SIDE B
12	10398523.GBO	-	OUTER LAYER 5	OVERLAY SIDE B
13	10398523.GBP	-	OUTER LAYER 9	PASTE MASK SIDE B
14	10398523.GD1	-	DRILL LOCATIONS	DRILL DRAWING

TABLE B / APERATURE SIZES			
SN NO.	FILE:	APERTURE TYPE	EMBEDDED D-CODE
4	10398523.GTP	RS274-X STANDARD	YES
5	10398523.GTO		YES
6	10398523.GTS		YES
7	10398523.GTL		YES
8	10398523.GP1		YES
9	10398523.GP2		YES
10	10398523.GBL		YES
11	10398523.GBS		YES
12	10398523.GBO		YES
13	10398523.GBP		YES
14	10398523.GD1		YES

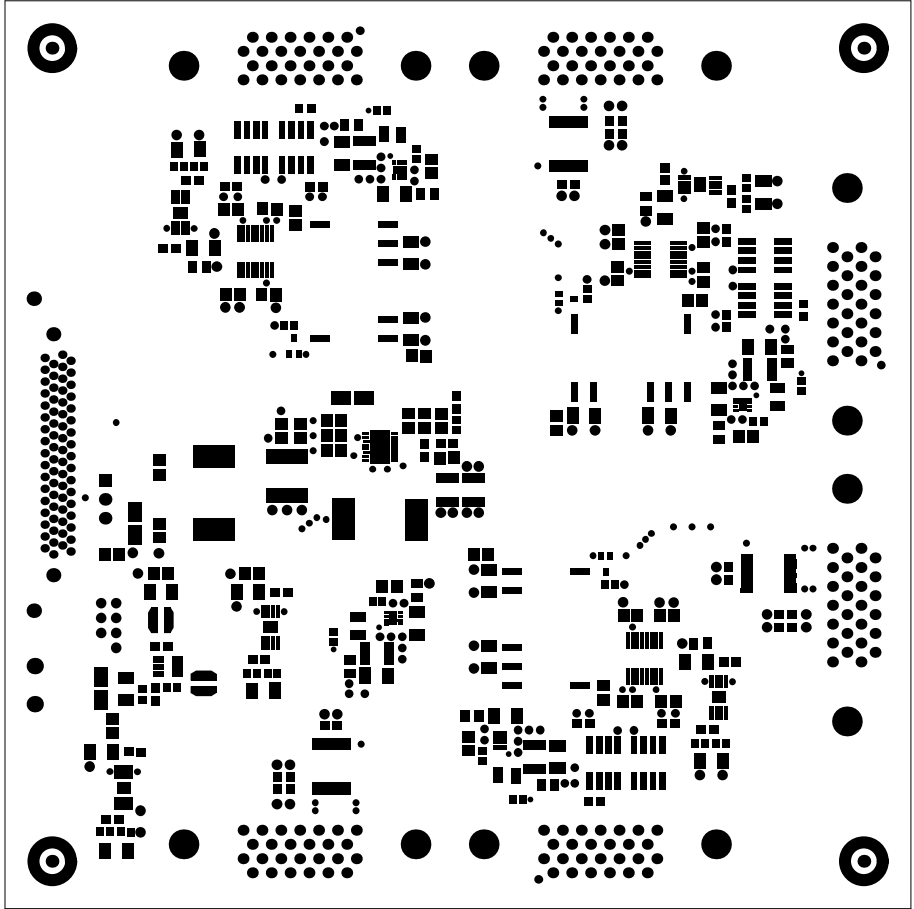


PASTEMASK – SIDE A

EDGE SENSOR CONNECTOR BOARD  
10398523–104 REV A  
JPL D.P. 06/28/2015

THIS DOCUMENT HAS BEEN REVIEWED AND DETERMINED NOT TO CONTAIN ITAR CONTROLLED TECHNICAL DATA.	SIZE	CAGE CODE		REV
	B	23835	10398523	B
SCALE: 1/1		UNCLASSIFIED	SHEET 4 OF 14	

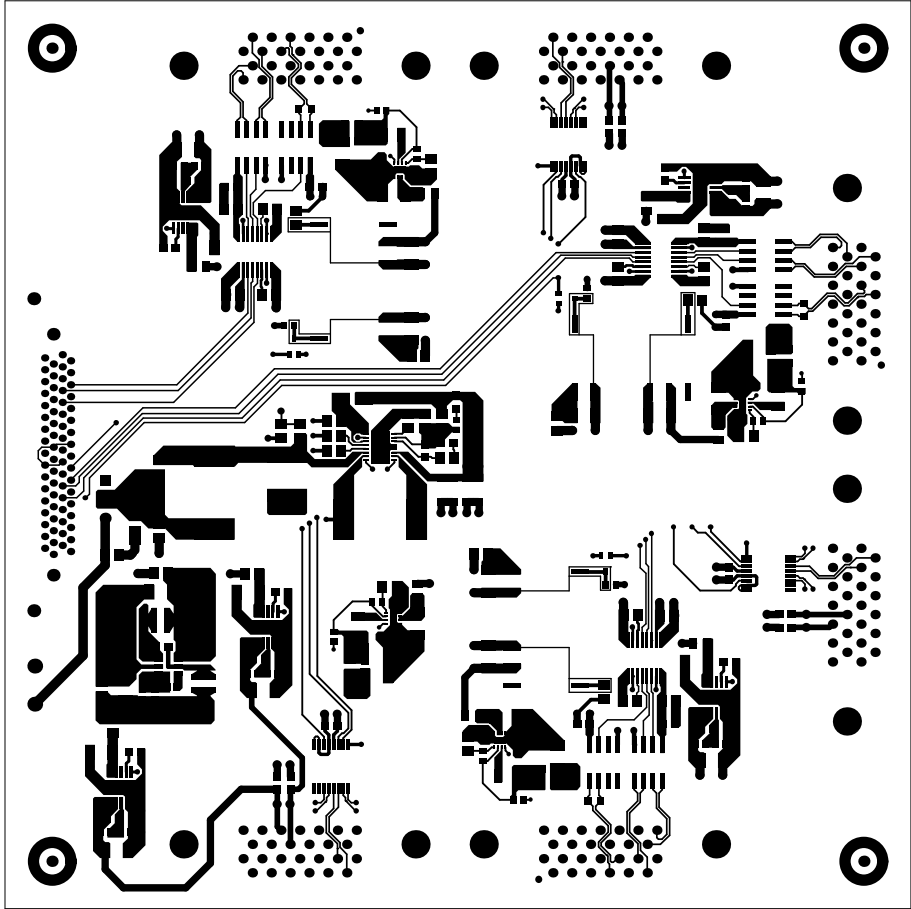




SOLDERMASK -- SIDE A

EDGE SENSOR CONNECTOR BOARD  
10398523--106 REV A  
JPL D.P. 06/28/2015

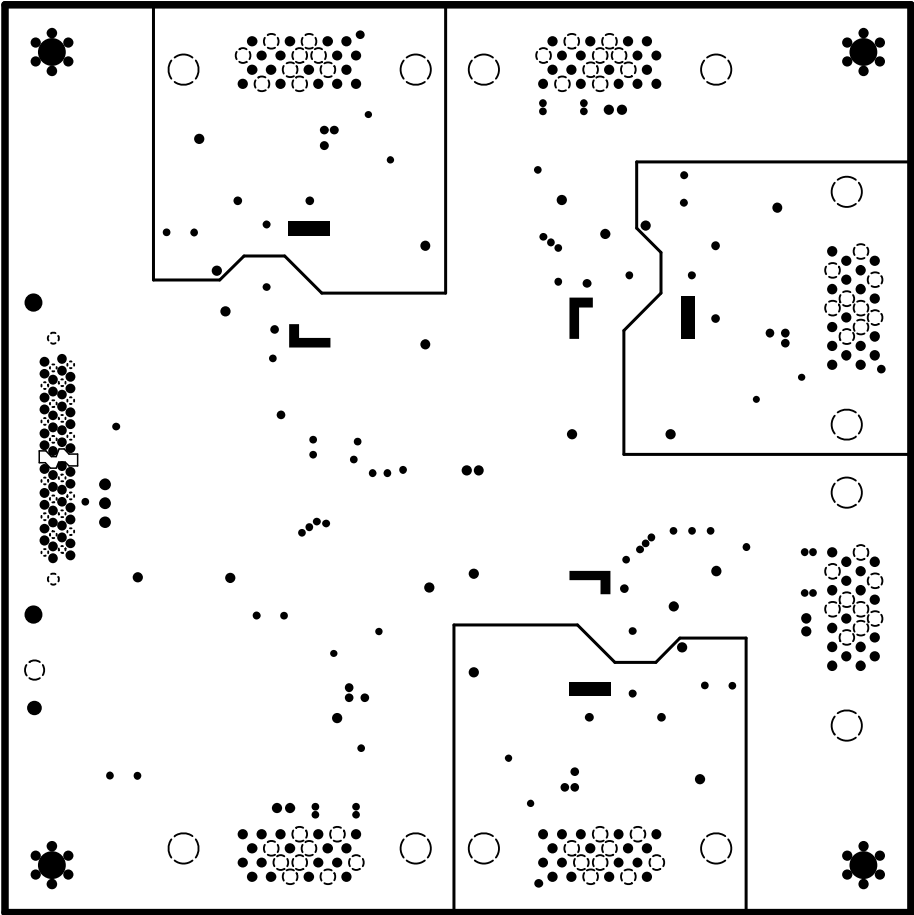
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	B	23835	10398523	B
SCALE: 1/1		UNCLASSIFIED	SHEET 6 OF 14	



COPPER LAYER 1 – SIDE A

EDGE SENSOR CONNECTOR BOARD  
10398523–107 REV A  
JPL D.P. 06/28/2015

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SCALE: 1/1		UNCLASSIFIED	SHEET 7 OF 14	

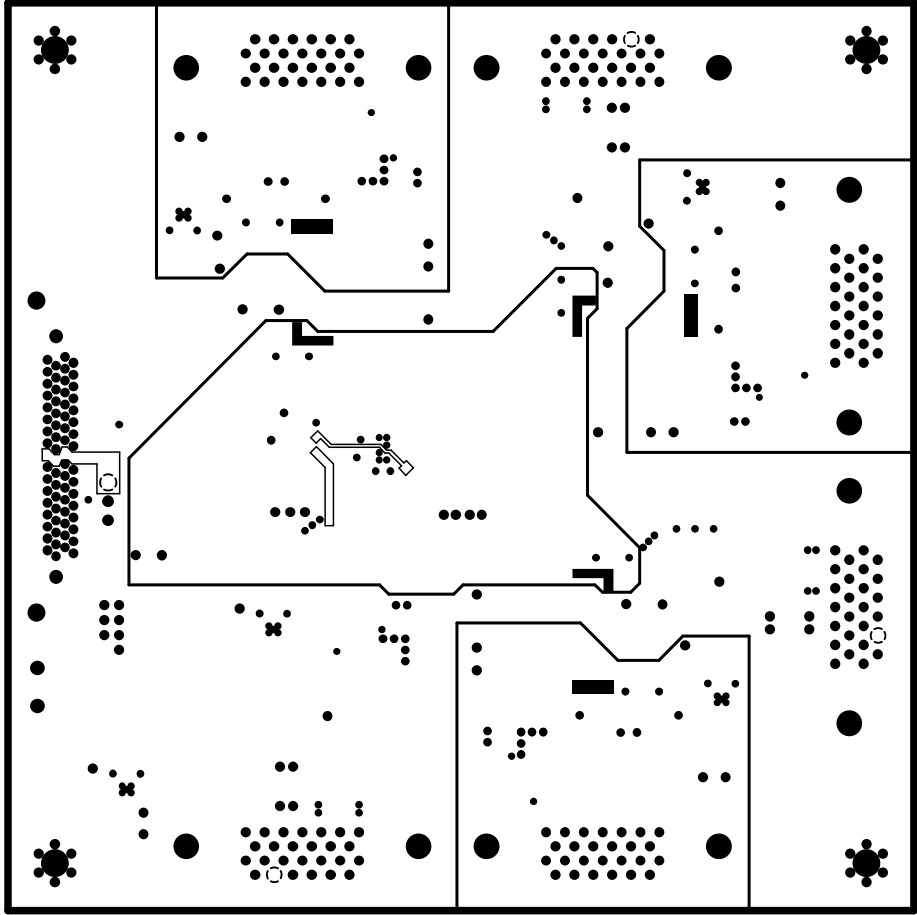


PLANE 1 – GND SPLIT

EDGE SENSOR CONNECTOR BOARD  
10398523–108      REV A  
JPL D.P. 06/28/2015

THIS DOCUMENT HAS BEEN REVIEWED AND DETERMINED NOT TO CONTAIN ITAR CONTROLLED TECHNICAL DATA.	SIZE	CAGE CODE		REV
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SCALE: 1/1		UNCLASSIFIED	SHEET 8 OF 14	

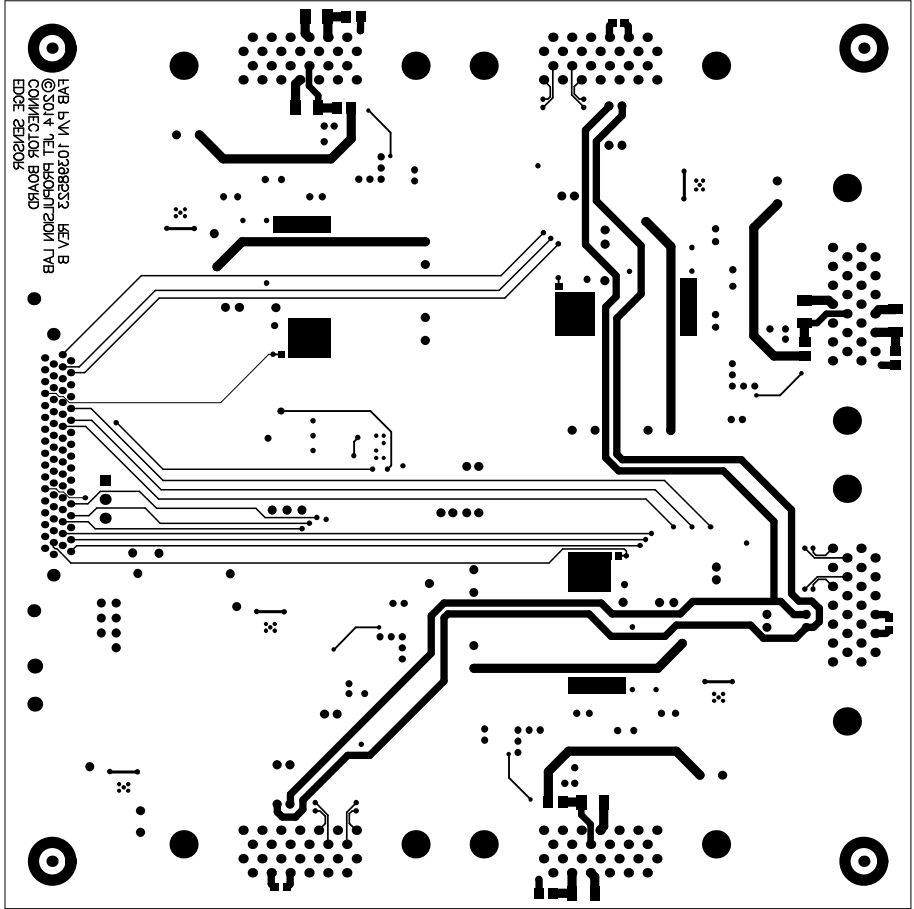




PLANE 2 - PWR SPLIT

EDGE SENSOR CONNECTOR BOARD  
10398523-109 REV A  
JPL D.P. 06/28/2015

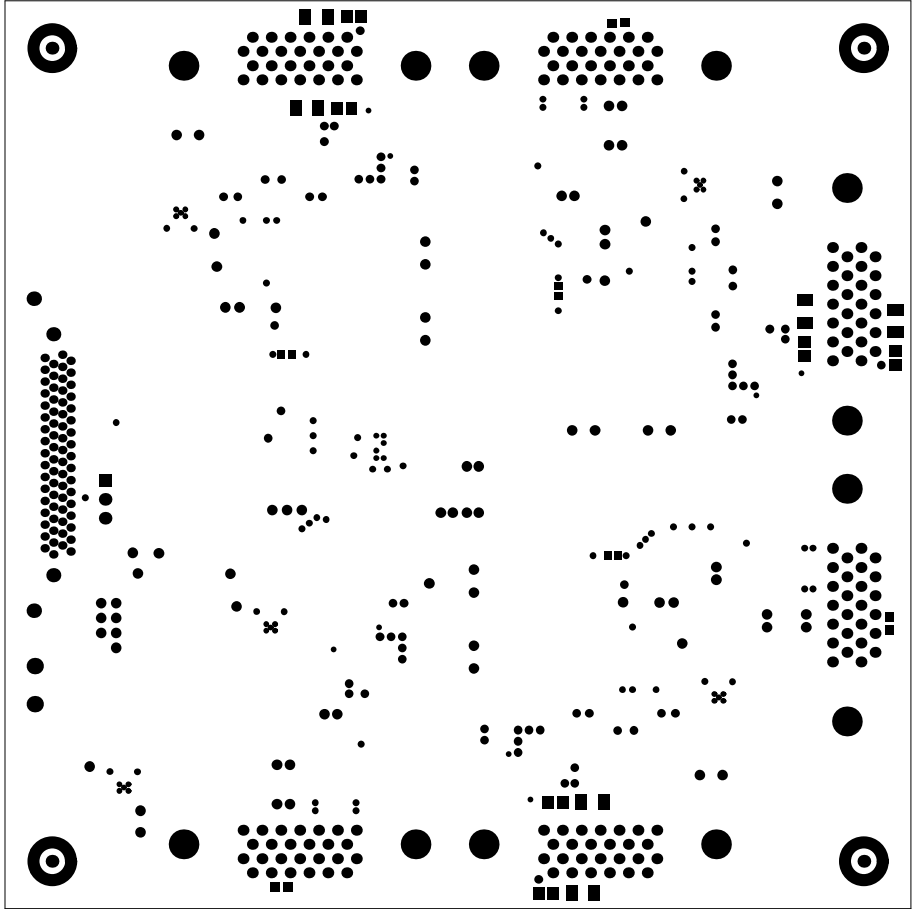
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	B	23835	10398523	B
SCALE: 1/1		UNCLASSIFIED	SHEET 9 OF 14	



COPPER LAYER 2 – SIDE B

EDGE SENSOR CONNECTOR BOARD  
10398523–110 REV A  
JPL D.P. 06/28/2015

THIS DOCUMENT HAS BEEN REVIEWED AND DETERMINED NOT TO CONTAIN ITAR CONTROLLED TECHNICAL DATA.	SIZE	CAGE CODE		REV
	B	23835	10398523	B
	SCALE: 1/1	UNCLASSIFIED	SHEET 10 OF 14	



SOLDERMASK – SIDE B

EDGE SENSOR CONNECTOR BOARD  
10398523–111 REV A  
JPL D.P. 06/28/2015

THIS DOCUMENT HAS BEEN REVIEWED AND DETERMINED NOT TO CONTAIN ITAR CONTROLLED TECHNICAL DATA.	SIZE	CAGE CODE		REV
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SCALE: 1/1		UNCLASSIFIED	SHEET 11 OF 14	

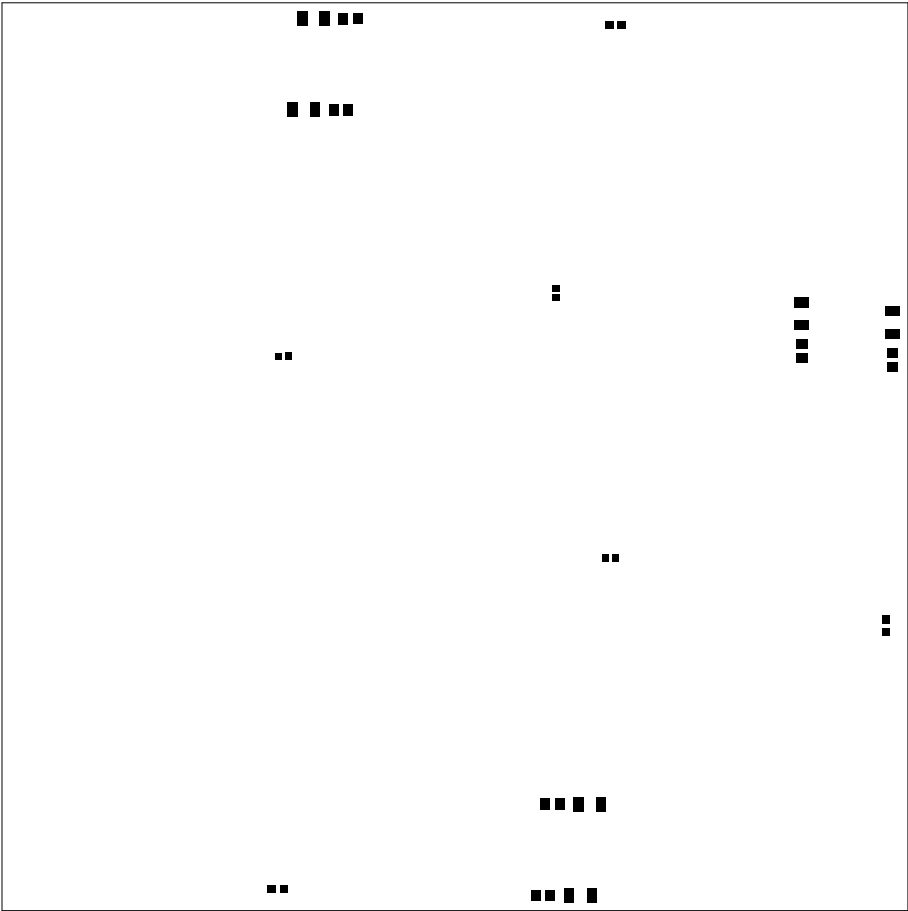


EDGE SENSOR CONNECTOR BOARD  
10398523-112 REV A  
JPL D.P. 06/28/2015

THIS DOCUMENT HAS BEEN  
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TO CONTAIN ITAR CONTROLLED  
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REV 02/2013

DBASE NAME: ANSI\_B-SH2/A5

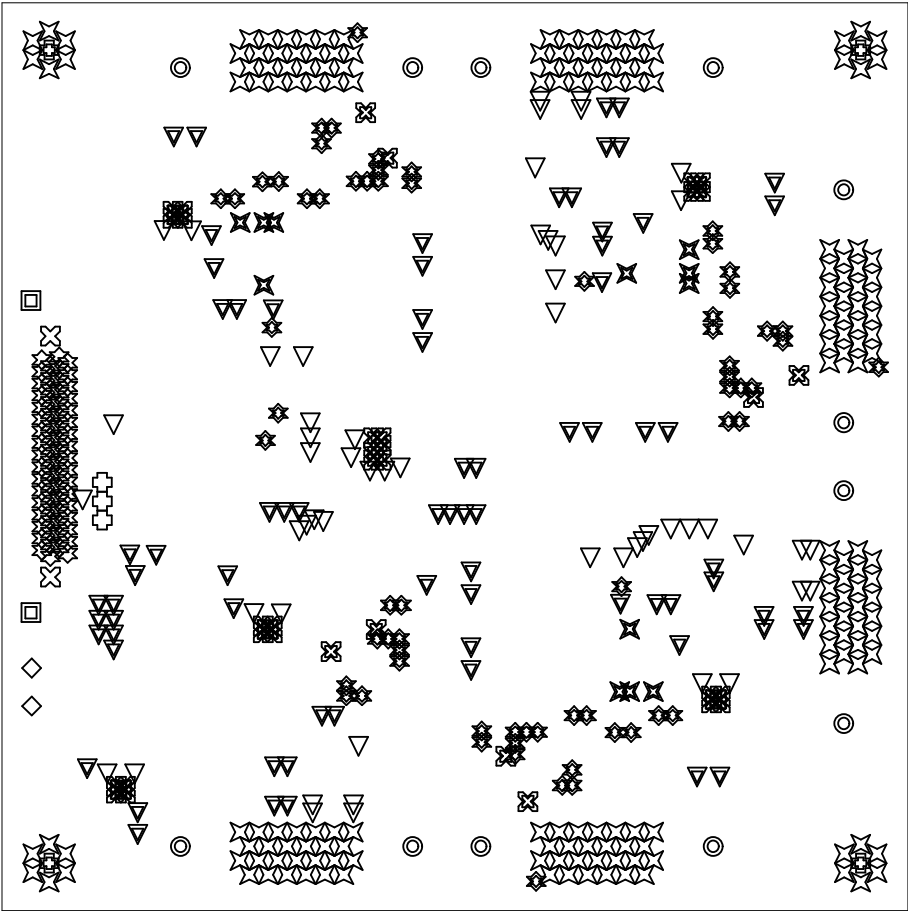


PASTEMASK – SIDE B

EDGE SENSOR CONNECTOR BOARD  
10398523–113      REV A  
JPL D.P. 06/28/2015

THIS DOCUMENT HAS BEEN REVIEWED AND DETERMINED NOT TO CONTAIN ITAR CONTROLLED TECHNICAL DATA.	SIZE	CAGE CODE		REV
	B	23835	10398523	B
	SCALE: 1/1		UNCLASSIFIED	SHEET 13 OF 14

Symbol	Hit Count	Finished Hole Size	Plated	Hole Type
⌘	2	1.200mm (47.24mil)	PTH	Round
◇	2	1.300mm (51.18mil)	PTH	Round
■	2	1.750mm (68.90mil)	NPTH	Round
⊕	3	0.900mm (35.43mil)	PTH	Round
⊗	4	3.048mm (120.00mil)	NPTH	Round
×	12	0.381mm (15.00mil)	PTH	Round
●	12	2.794mm (110.00mil)	PTH	Round
⌘	39	0.305mm (12.00mil)	PTH	Round
▽	54	0.375mm (14.76mil)	PTH	Round
*	66	0.500mm (19.69mil)	PTH	Round
☆	68	0.650mm (25.59mil)	PTH	Round
▼	74	0.700mm (27.56mil)	PTH	Round
⌘	180	0.711mm (28.00mil)	PTH	Round
518 Total				



DRILL DRAWING

EDGE SENSOR CONNECTOR BOARD  
10398523-114 REV A  
JPL D.P. 06/28/2015