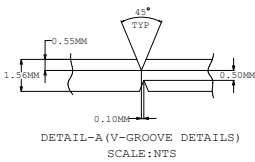


FABRICATION NOTES:

- FABRICATE PCB IN ACCORDANCE WITH IPC-6012D, CLASS 2; PER IPC-6011.
- MATERIALS:
 - LAMINATE AND PREPREG (B-STAGE) TO BE IN ACCORDANCE WITH IPC-4101/126. (MIN.TS 170)
 - COPPER FOIL TO BE IN ACCORDANCE WITH IPC-MP-150. UNLESS OTHERWISE SPECIFIED, ALL COPPER WEIGHT FOR INNER SIGNAL LAYERS AND INNER PLANE LAYERS TO BE 35UM (1 OZ.). FOR OUTER LAYERS 35UM (1 OZ). COPPER WEIGHT IS TO BE CONSIDERED "FINISHED". THE COPPER FOIL THICKNESS TOLERANCES SHALL BE AS PER IPC 6012B TABLE NO.3-7 AND 3-8.
- ALL HOLES SHALL BE LOCATED WITHIN 0.15MM DIAMETER OF TRUE POSITION. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.125MM.
- BOW AND TWIST SHALL NOT EXCEED MORE THAN 0.75% OF THE DESIGN LENGTH.
- CONDUCTOR WIDTH SHALL NOT BE LESS THAN 20% FROM ITS ORIGINAL DATA. INCASE FOR MATCHING IMPEDANCE MISTRAL SHALL APPROVE THE MODIFIED WIDTHS AND SPACING. TRACE WIDTH SHALL BE MEASURED ON THE SURFACE IN CONTACT WITH THE LAMINATE.
- BOARD FINISHED SHALL BE ACCORDING TO IPC-6012D CLASS 2.
- AUTOMATED OPTICAL INSPECTION OF ALL THE LAYERS IS REQUIRED.
- FINISH:
 - ALL EXPOSED CONDUCTIVE PATTERN AREAS NOT COVERED WITH SOLDER MASK OR OTHER PLATING SHALL BE ENIG. ELECTROLESS NICKEL/IMMERSION GOLD, ELECTROLESS NICKEL SHALL BE 3-6 MICRONS, TYPICAL IMMERSION GOLD THICKNESS SHALL BE 0.04-0.06 MICRONS OF SOLDERABLE IMMERSION GOLD SURFACE.
 - APPLY LIQUID PHOTO IMAGEABLE SOLDER MASK PER IPC-SM-840, CLASS H, TO BOTH SIDES OF THE BOARD OVER BARE COPPER. VIA HOLES SHALL BE FILLED WITH NON CONDUCTIVE INK AND COVERED WITH SOLDER MASK. ONLY SOLDER MASK IMAGES THAT ARE 0.08(0.003") PER SIDE SHALL BE REDUCED IF REQUIRED. ALL OTHER SOLDER MASK IMAGES SHALL NOT BE ENLARGED. DEFAULT COLOUR OF SOLDER MASK SHALL BE GREEN.
 - SILKSCREEN SHALL BE WHITE, PERMANENT, ORGANIC, NON-CONDUCTIVE INK. THERE SHALL BE NO SILKSCREEN ON ANY SOLDERABLE COMPONENT PAD. CLIPPING OF SILK SCREEN SHALL BE ALLOWED IF THE SILK SCREEN FALLS ON SOLDERABLE AREAS.
 - SURFACE AND VIA HOLES FINISH SHALL NOT BE LESS THAN 20UM [0.00079"], INCASE OF LASER VIA'S, BLIND VIA'S SHALL NOT BE LESS THAN 12UM [0.00047"] AND BURIED VIA'S SHALL NOT BE LESS THAN 15UM [0.0006"].
 - ALL HOLES SURROUNDED BY LAND <=0.015" SHALL BE COMPLIANCE TO IPC6012, CLASS 2.
- MARKING:
 - BOARD SHALL MEET THE REQUIREMENTS OF UL-796E WITH FLAMMABILITY RATING OF MINIMUM 94V-0. UL LOGO, MANUFACTURER'S IDENTIFICATION AND DATE CODE LETTER SHALL BE RENDERED IN SILKSCREEN.
- TEST REQUIREMENTS:
 - 100% NET LIST ELECTRICAL VERIFICATION USING MISTRAL SUPPLIED IPC-D-356 NET LIST FOR OPENS AND SHORTS.
- THIEVING IS ALLOWED ONLY IN THE PANEL FRAME, NOT IN THE CIRCUIT AREA.
- TEAR DROPS SHALL BE ADDED ON VIA'S AND THROUGH HOLE PADS IN ALL INTERNAL AND OUTER LAYERS.
- ALL UNCONNECTED VIA'S SHALL BE SUPPRESSED IF REQUIRED.
- FINISHED PCB THICKNESS SHALL BE 0.0620" +/-10%.
- MIN TRACE WIDTH/SPACING ON BOARD IS 0.0032"/0.0032".

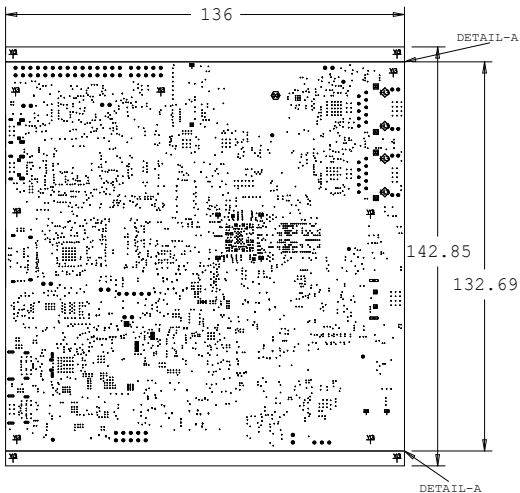


LAYER STACKUP

LAYER NAME	FINISHED Cu	X-SECTION	DIELECTRIC THICKNESS (INCHES)
PRIMARY SIDE SILKSCREEN			
PRIMARY SIDE SOLDERMASK			
L01 PRIMARY SIDE	1oz.		
L02 GROUND-PLANE-1	1oz.		0.0041
L03 INNER-SIGNAL-1	1oz.		0.0039
L04 POWER-PLANE-1	1oz.		0.0039
L05 GROUND-PLANE-2	1oz.		0.0041
L06 SECONDARY SIDE	1oz.		
SECONDARY SIDE SOLDERMASK			
SECONDARY SIDE SILKSCREEN			

REVISIONS

REV #	DESCRIPTION	DATE
REV #	CCN #	DDMMYY



IMPEDANCE SPECIFICATIONS

SL#	TYPE	LAYER	TRACEWIDTH (Mils)	SPACING (Mils)	IMPEDANCE (Ohms)	REF LAYER
01	EDGE COUPLED MICROSTRIP	L1, L6	4	4.5	90	L2, L5
02	EDGE COUPLED MICROSTRIP	L1, L6	3.5	5.8	100	L2, L5
03	EDGE COUPLED STRIPLINE	L3	4	4.5	90	L2, L4
04	EDGE COUPLED STRIPLINE	L3	3.2	10	100	L2, L4
05	MICROSTRIP	L1, L6	5.2	-	50	L2, L5
06	STRIPLINE	L3	3.7	-	50	L2, L4

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	FINISHED SIZE	TOLERANCE DRILL	PLATED	QTY
1	10.0	+3.0/-3.0	PLATED	1134
2	36.0	+3.0/-3.0	PLATED	20
3	40.0	+2.0/-2.0	PLATED	5
4	40.0	+3.0/-3.0	PLATED	66
5	44.0	+2.0/-2.0	PLATED	14
6	66.0	+3.0/-3.0	PLATED	4
7	118.0	+3.0/-3.0	PLATED	1
8	32.0	+3.0/-3.0	NON-PLATED	4
9	34.0	+1.0/-1.0	NON-PLATED	2
10	44.0	+2.0/-2.0	NON-PLATED	1
11	48.0	+3.0/-3.0	NON-PLATED	2
12	62.0	+2.0/-2.0	NON-PLATED	1
13	66.0	+3.0/-3.0	NON-PLATED	2
14	68.0	+3.0/-3.0	NON-PLATED	4
15	108.0	+3.0/-3.0	NON-PLATED	11
16	126.0	+3.0/-3.0	NON-PLATED	4
17	46.0x26.0	+3.0/-3.0	PLATED	4
18	48.0x22.0	+3.0/-3.0	PLATED	4
19	62.0x24.0	+2.0/-2.0	PLATED	4
20	68.0x34.0	+3.0/-3.0	PLATED	4
21	82.0x24.0	+2.0/-2.0	PLATED	4
22	118.0x28.0	+3.0/-3.0	PLATED	2
TOTAL HOLES:				3430



MISTRAL SOLUTIONS PVT.LTD.,
#60, ADARSH REGENT, 100' FEET RING ROAD,
DOMLUR EXTENSION, BANGALORE 560 071.

AM62L EVM

APPROVALS			DATE	SIZE	DRAWING NO.	REV
DRAWN	UD		181224	C	PROC181E1-1	E1-1
CHECKED	ZA		181224			
APPROVED	AMB		181224	SCALE:NONE	FILE NAME:	SHEET 01 OF 13