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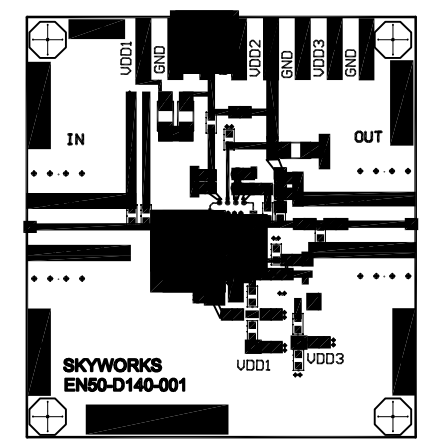
1	ENGINEERING RELEASE	03.11.2010	VT

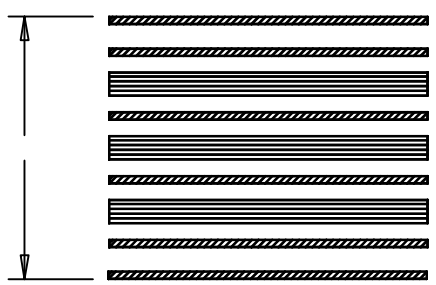
NOTES: UNLESS OTHERWISE SPECIFIED

1. FABRICATE BOARDS USING TOOL ARTWORK EN50-D140-001 REV X. ALL DATA IS VIEWED FROM THE TOP SURFACE.
2. FABRICATE IN ACCORDANCE WITH IPC-6012, CLASS 2. ACCEPT PER IPC-A-600.
3. MATERIAL: Circuit Board: CONTROLLED IMPEDENCE TOP LAYER, Rogers 4350B DIELECTRIC 0.010 THK
   Circuit Board Backing: FR-4 COPPER CLAD GLASS LAMINATE, BOTTOM LAYER REQUIREMENTS STATED IN DETAIL A.
4. COPPER PLATE .0010/.0015 THICK IN THRU HOLE VIAS(APPROX. 0.0015 ON SURFACE).
5. TIN LEAD PLATE SHALL BE APPLIED OVER ALL EXPOSED COPPER, SURFACE AREA SHALL BE UNIFORM OVER LAND AREA, 0.001 INCH MAX, HOT AIR LEVELED.
6. APPLY BLUE LIQUID PHOTOIMAGABLE SOLDERMASK OVER BARE COPPER (SMOBC) TO
7. APPLY DESIGNATIONS TO TOP SURFACES USING PERMANENT SOLVENT INK DEFINED BY ARTWORK. COLOR SHALL BE WHITE.
8. CONDUCTORS INDICATED SHALL BE 0.0189 +/-0.001.
9. MINIMUM CONDUCTOR WIDTH IS 0.010
10. MINIMUM CONDUCTOR TO CONDUCTOR SPACING IS 0.007.
11. FINISHED BOARD THICKNESS SHALL BE 0.062 +/-0.005.
12. LAYER TO LAYER REGISTRATION TO BE +/- 0.001.
13. ALL HOLES SHALL BE LOCATED WITHIN HOLE TO PAD TANGENCY.
14. TDR COUPON REQUIRED WITH MEASUREMENT RESULTS DELIVERED WITH BOARDS. CONTROLLED IMPEDANCE SHALL BE 50 OHMS +/- 10% ON LAYER 1.
15. SUPPLIER ID/PART NUMBER AND LOT NUMBER ARE REQUIRED TO BE LOCATED AS INDICATED ON BOTTOM SURFACE.

LAYER TABLE

LAYER	COLOR	DESCRIPTION
MSK-NS	BLUE	ALL TRACES, PADS
MSK-FS	BLUE	CIRCUIT BOARD BACKING
TRA-NS	MAGENTA	ALL TRACES, PADS
TRA-FS	RED	CIRCUIT BOARD BACKING
TRA-2	CYAN	ALL TRACES, PADS ON TRA-2
TRA-3	YELLOW	ALL TRACES, PADS ON TRA-3
HOL	GREY	DRILL ALL HOLES TO APPROPRIATE SIZES DESCRIBED IN HOLE CHART
PCB	RED	DETERMINES EDGES OF BOARD
SLK-NS	WHITE	REFERS TO ALL LETTERING NEARSIDE SEE SILKSCREEN REFERENCE DRAWING





MSK-NS		
TRA-NS	(.0007)	COPPER FOIL
LAMINATE	0.010 +/-0.0006	Rogers 4350B
TRA-2	(.0007)	COPPER FOIL
LAMINATE	0.035 NOM.	FR4 PREPREG (ADJUST THIS THICKNESS TO MEET TOTAL THICKNESS GOAL)
TRA-3	(.0007)	COPPER FOIL
LAMINATE	0.010 +/-0.0006	FR4 CORE
TRA-FS	(.0007)	COPPER FOIL
MSK-FS		

HOLE TABLE EN50-D140

SYM	DIA	TOL	PLATE	NOTE	QTY
N/A	0.010	±.002	YES	–	84
N/A	0.012	±.002	YES	–	63
N/A	0.014	±.002	YES	–	40
N/A	0.093	±.002	YES	–	4

ALL PLATED THRU HOLE DIMENSIONS ARE AFTER PLATING.
TOLERANCE +/-.002

QTY REQ'D	ITEM OR SYM	DWG. SIZE	PART NUMBER	DESCRIPTION

LIST OF MATERIAL

NEXT ASSEMBLY	USED ON
	SKY67105/SKY67106

APPLICATION

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH: RMS 63
ANGLES: ±1/2° FRACTIONS: ±1/64
4 PLACE DECIMALS: ±.0005
3 PLACE DECIMALS: ±.005
2 PLACE DECIMALS: ±.02

COMMERCIAL PUBLISHED TOLERANCES SHALL APPLY TO TUBING, BAR, PLATE ETC. ALL THREADS TO BE CLASS 2A OR 2B. PLATED PARTS MUST FIT GAUGES AND MEET SPECIFIED TOLERANCES AFTER PLATING.

CAUTION
UNLESS THIS DRAWING BEARS AUTHORIZED SIGNED APPROVAL(S) IT IS PRELIMINARY AND IS NOT TO BE USED FOR MANUFACTURING PURPOSES.

DRAWN BY	V Tzanakos	03.11.2010
CHECKED BY		
ENG.		
PROD.		03.11.2010
Q.A.		

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

SKYWORKS SOLUTIONS, INC.

EN50-D140_001
EVAL BOARD

SIZE	CAGE CODE	
B	53536	EN50-D140

SCALE 2X

SHEET 1 OF 1