

## HDI Stackup Planner — Detailed Report for HSP-106815 Option B



Sierra Circuits, Inc.

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## Customer Input

Part Number/ Rev	:	harley/ a			
PCB Size	:	1.3 inches X 1.72 inches			
Number of layers	:	10	PCB Thickness	:	0.062 inches
Material	:	NP175	Outer Layer	:	Signal

MicroVias depicted by 		Finished Copper Weight	Finished Thickness (inches)	Impedance Calculator
<b>SOLDER MASK</b>			0.0005	
L-1	<b>TOP SIGNAL</b>	1 Oz	0.0014	NEED IMPEDANCE CALCULATIONS?
	<b>DIELECTRIC</b>		0.0035	
L-2	<b>PLANE</b>	0.5 Oz	0.0007	
	<b>DIELECTRIC</b>		0.0040	
L-3	<b>SIGNAL</b>	0.5 Oz	0.0007	NEED IMPEDANCE CALCULATIONS?
	<b>DIELECTRIC</b>		0.0035	
L-4	<b>SIGNAL</b>	0.5 Oz	0.0007	NEED IMPEDANCE CALCULATIONS?
	<b>DIELECTRIC</b>		0.0040	
L-5	<b>PLANE</b>	0.5 Oz	0.0007	
	<b>DIELECTRIC</b>		0.0225	
L-6	<b>SIGNAL</b>	0.5 Oz	0.0007	NEED IMPEDANCE CALCULATIONS?
	<b>DIELECTRIC</b>		0.0040	
L-7	<b>PLANE</b>	0.5 Oz	0.0007	
	<b>DIELECTRIC</b>		0.0035	
L-8	<b>PLANE</b>	0.5 Oz	0.0007	
	<b>DIELECTRIC</b>		0.0040	
L-9	<b>PLANE</b>	0.5 Oz	0.0007	
	<b>DIELECTRIC</b>		0.0035	
L-10	<b>BOTTOM SIGNAL</b>	1 Oz	0.0014	NEED IMPEDANCE CALCULATIONS?
<b>SOLDER MASK</b>			0.0005	
<b>Total Thickness</b>			<b>0.0619 (inches)</b>	

## Customer Saved Impedance Results

Layer	Impedance Model	Impedance (ohms)	Trace (mils)	Space (mils)	Delete
No impedance calculations yet!					

## Stackup Details

Number of Layers	Number of Signal Layers	Number of Sequential Laminations	Number of Plane Layers	Maximum Number of Laser Drills	Mechanical Drills
10	5	0	5	2	1

## Technology Parameters and Cost Index

PCB TECHNOLOGY LEVELS	Level 1	Level 2	Level 3	Level 4
Mechanical Micro via Drill diameter (in mils)	8.00	8.00	7.00	6.00
Mechanical Micro via Pad diameter (in mils)	16.00	14.00	13.00	12.00
Micro Via Drill Diameter (in mils)	6	6	6	6
Micro Via Pad Diameter (in mils)	14	12	12	12
Trace Width Top Layer (in mils)	5.00	4.50	4.00	4.00
Trace width Inner Buildup Layers (in mils)	4.50	4.00	3.50	3.00
Trace Width Inner Core Layers (in mils)	4.50	4.00	3.50	3.00
Trace Width Bottom Layer (in mils)	5.00	4.50	4.00	4.00
Cost Index	<b>2.7</b>	<b>3.2</b>	<b>4.0</b>	<b>5.0</b>

## Via Set Information

This stack up supports the following via set

 L1-L2 L1-L10  
 L9-L10