HDI Stackup Planner — Detailed Report for HSP-106895 Option B

Sierra Circuits, Inc.

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Customer Input

Part Number/ Rev : harley_cam/ c PCB Size in X : 1.3 inches X 1.77 inches

PCB Thickness :0.062 inches Number of layers : 10 : NP175 Material Outer Layer :Signal

MicroVias depicted by			Finished Copper Weight	
	SOLDER MASK			0.0005
L-1	TOP SIGNAL		1 Oz	0.0014
	DIELECTRIC			0.0035
L-2	PLANE	·V—	0.5 Oz	0.0007
	DIELECTRIC			0.0040
L-3	SIGNAL	MANA AMANA	0.5 Oz	0.0007
	DIELECTRIC			0.0045
L-4	SIGNAL	ANNA ANNA	0.5 Oz	0.0007
	DIELECTRIC			0.0040
L-5	PLANE		0.5 Oz	0.0007
	DIELECTRIC			0.0205
L-6	PLANE		0.5 Oz	0.0007
	DIELECTRIC			0.0040
L-7	SIGNAL	MANA AMAMA	0.5 Oz	0.0007
	DIELECTRIC			0.0045
L-8	SIGNAL	ANNAT	0.5 Oz	0.0007
	DIELECTRIC			0.0040
L-9	PLANE	, leading to the second	0.5 Oz	0.0007
	DIELECTRIC	/ /		0.0035
L-10	BOTTOM SIGNAL		1 Oz	0.0014
	SOLDER MASK			0.0005
		Total Thickness	0.0619 (inches)	

Customer Saved Impedance Results								
Layer	Impedance Model	Impedance (ohms)	Trace Width (mils)	Space (mils)				
Layer 1	Soldermask Coated Microstrip Single-ended	51.7	5					
Layer 3	Stripline Single-ended	46.88	5					

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	6	0	4	2	1

Technology Parameters and Cost Index Via Set Information PCB TECHNOLOGY LEVELS Level 1 Level 2 Level 3 Level 4 This stack up supports the following via set Mechanical Micro via Drill diameter (in mils) 8.00 L1-L2 L1-L10 8.00 7.00 6.00 L9-L10 Mechanical Micro via Pad diameter (in mils) 16.00 14.00 13.00 12.00 Micro Via Drill Diameter (in mils) 6.00 6.00 6.00 4.00 Micro Via Pad Diameter (in mils) 14.00 12.00 12.00 10.00 Trace Width Top Layer (in mils) 5.00 4.50 4.00 4.00 Trace width Inner Buildup Layers (in mils) 4.00 3.00 4.50 3.50 Trace Width Inner Core Layers (in mils) 4.00 3.50 3.00 Trace Width Bottom Layer (in mils) 5.00 4.50 4.00 4.00 Cost Index 2.7 3.2 4.1 5.1

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