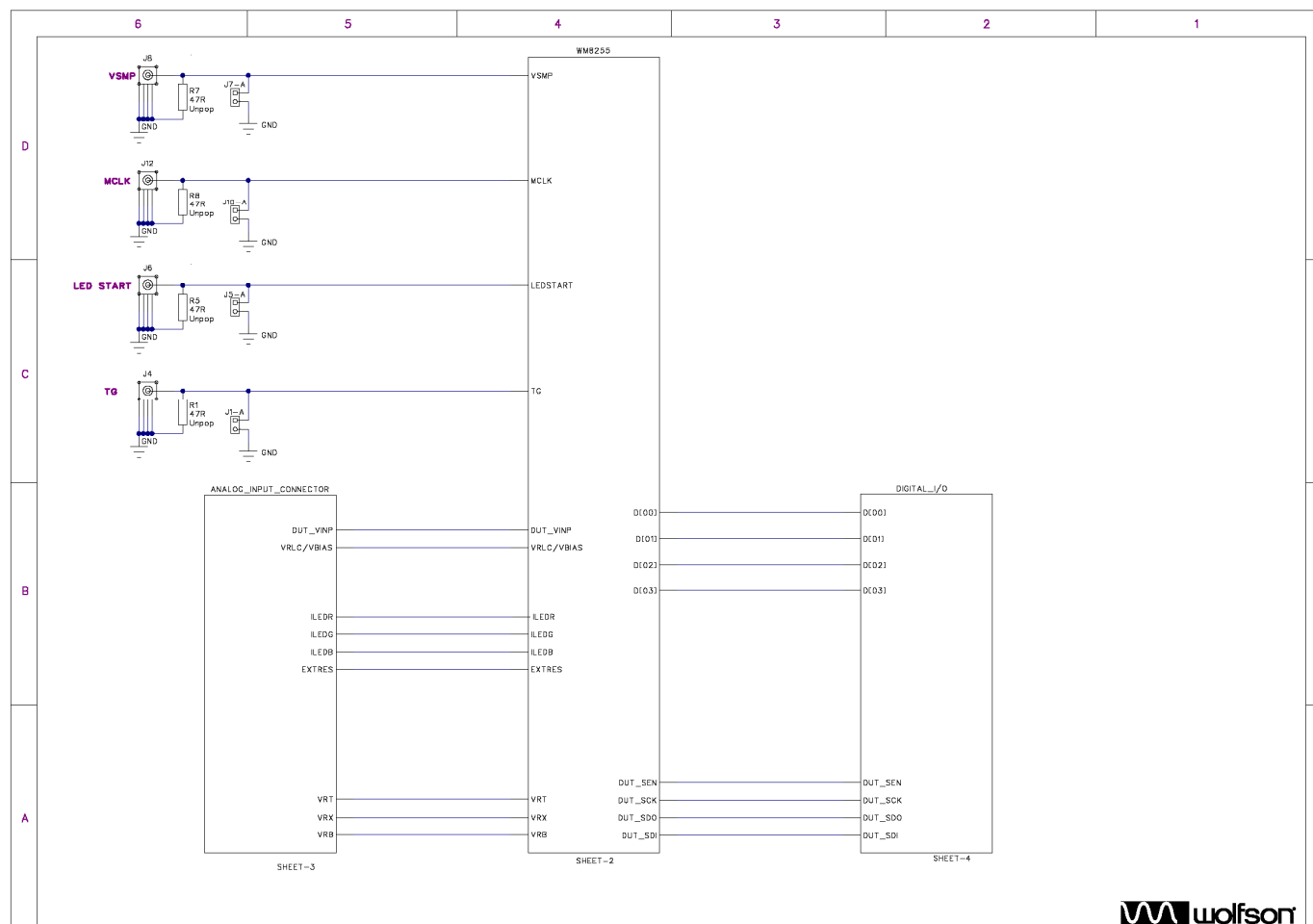
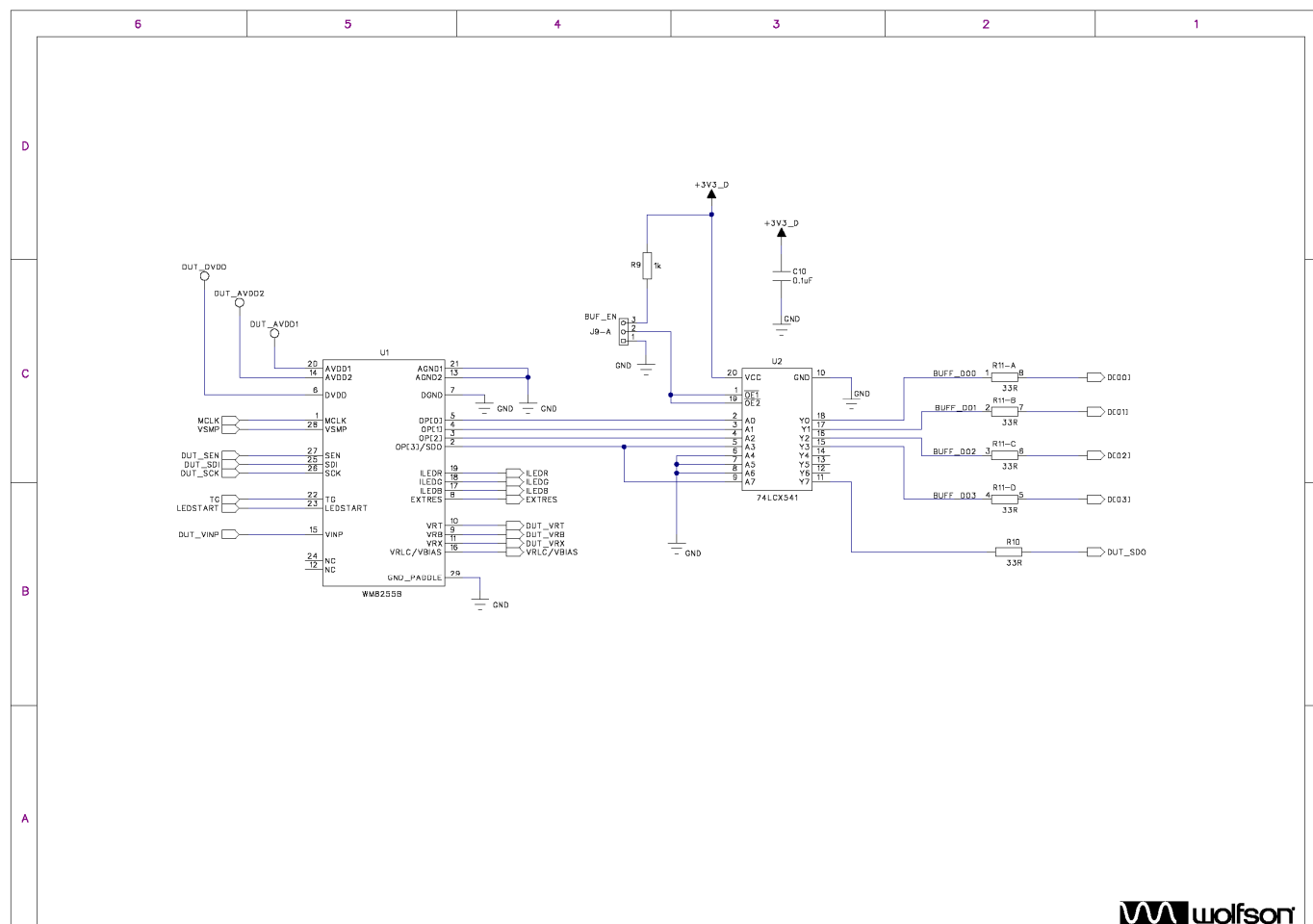


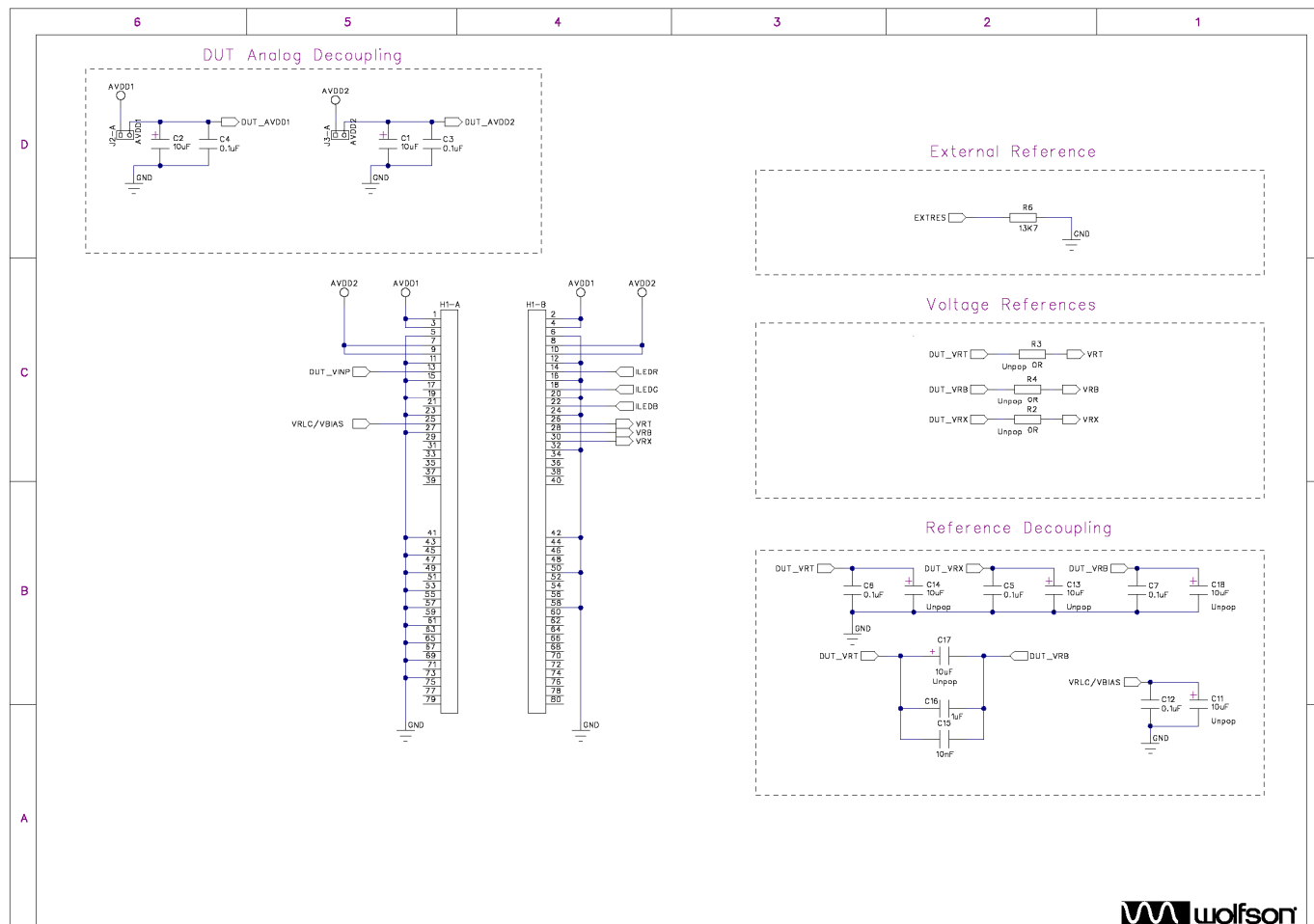
DOC TYPE:	SCHEMATIC AND LAYOUT
BOARD REFERENCE:	WM8255B-6109-FL28-M
BOARD TYPE:	Customer Mini
WOLFSON DEVICE(S):	WM8255B
DATE:	July 2011
DOC REVISION:	Rev 1.0

SCHEMATIC

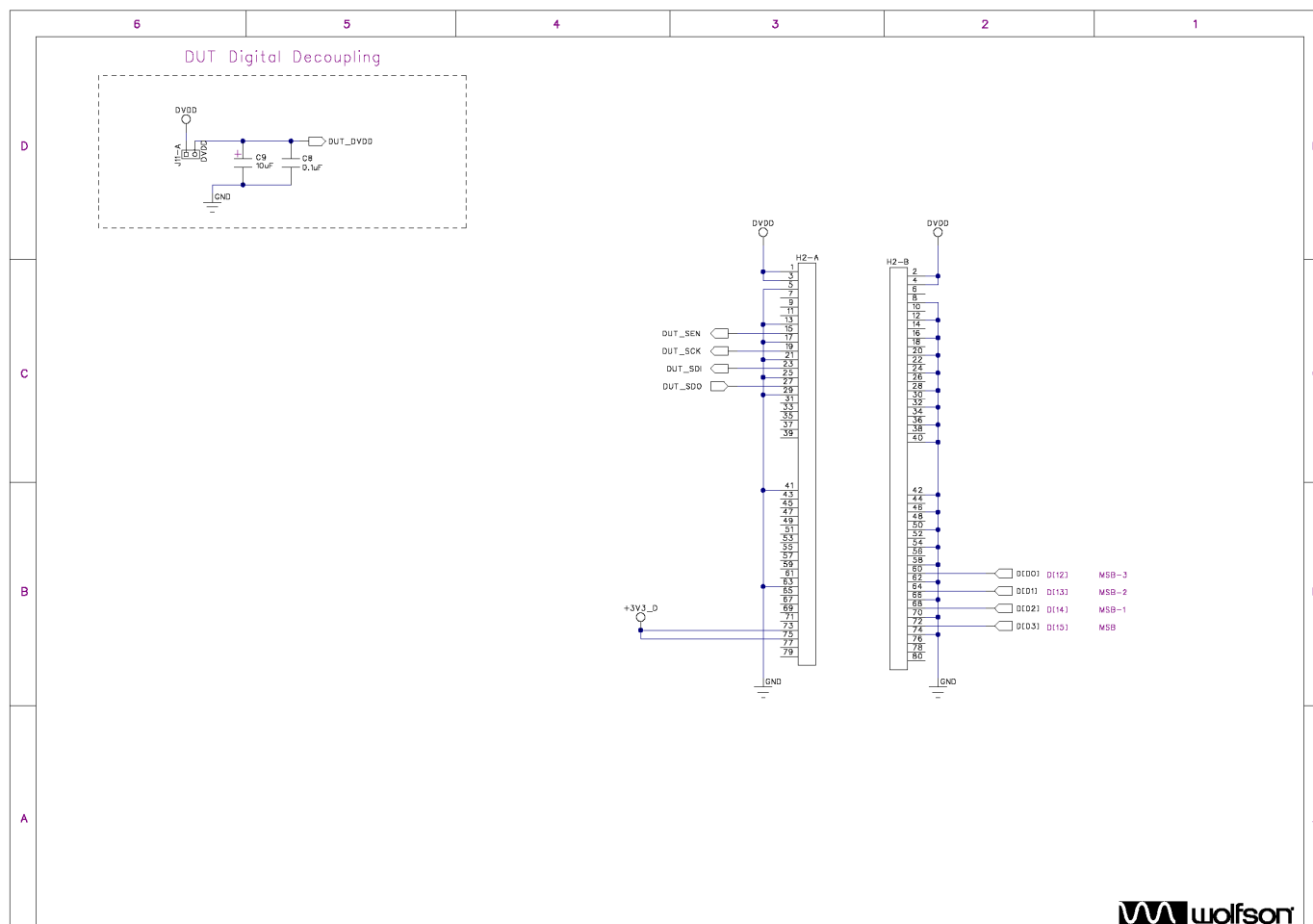
Sheet 1: Block Diagram



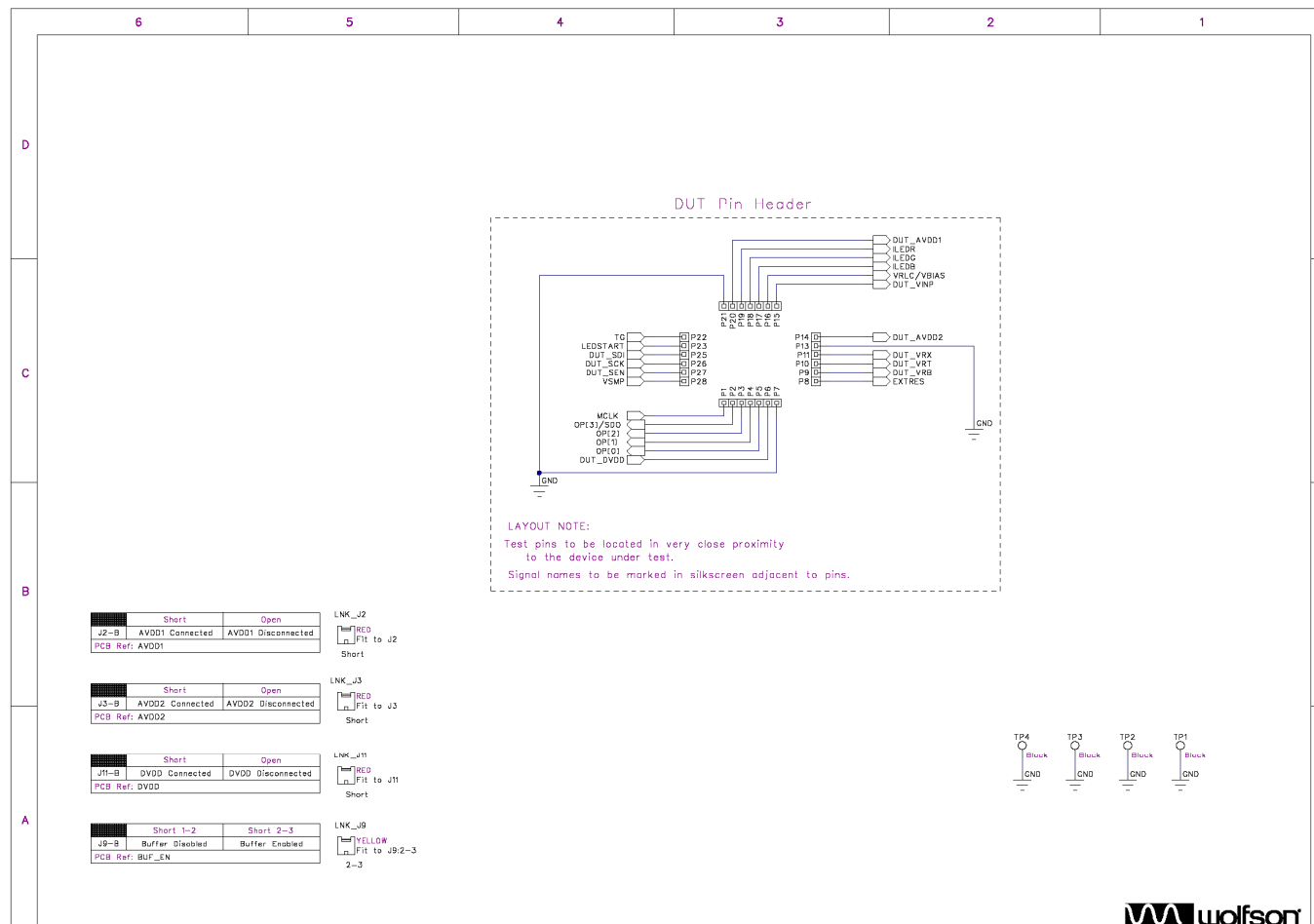


Sheet 3: Analogue IO


Sheet 4: Digital IO



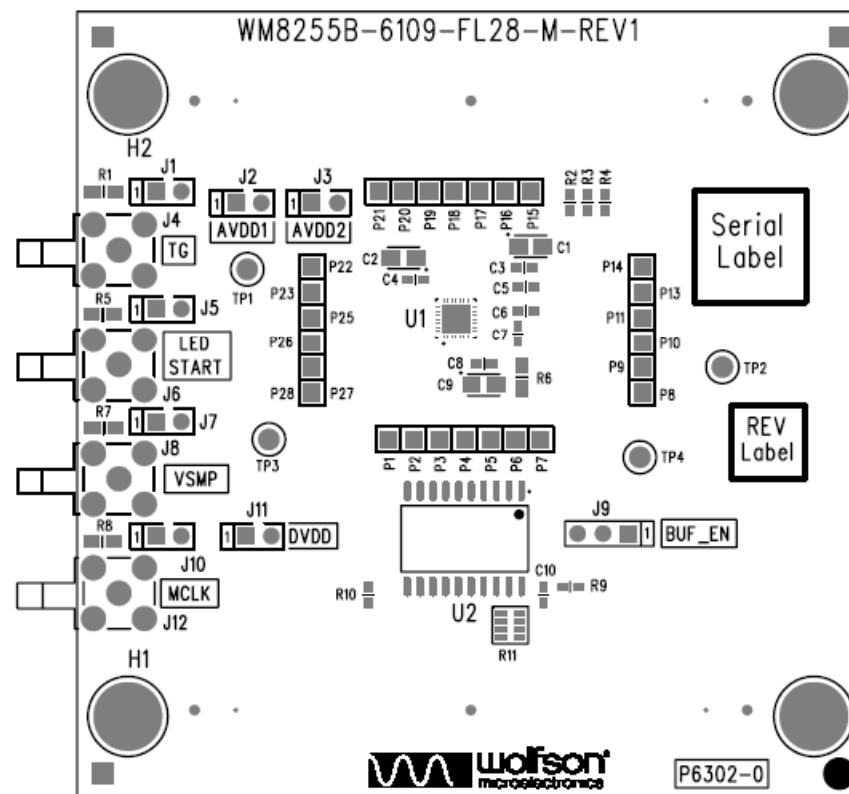
Sheet 5: Tables



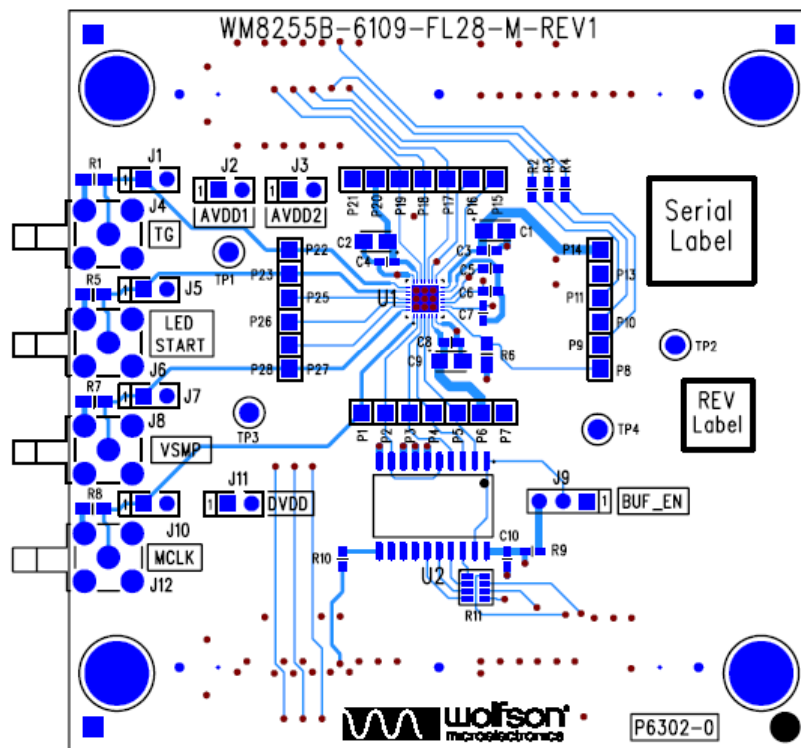
BILL OF MATERIALS (BOM)

Item	RefDes	Description	Manufacturer	Manufacturer's Part Number
1	U2	Octal Buffer/Line Driver	Fairchild Semiconductor	74LCX541WM
2	J1 J2 J3 J5 J7 J10 J11	1x2 PCB Pin Header 0.1" VERTICAL	Harwin	M20-9990245
3	P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P13 P14 P15 P16 P17 P18 P19 P20 P21 P22 P23 P25 P26 P27 P28	1x1 2.54mm pitch PCB Pin Header VERTICAL	Harwin	M20-9990245
4	J9	1x3 2.54mm Header Vertical	Harwin	M20-9990345
5	R6	13K7 0805 SMD chip resistor 0.1% 0.1W	Tyco	RN73C2A13K7BTG
6	J4 J6 J8 J12	SMB Connector PCB Mount 50 Ohm HORIZONTAL	Tyco Electronics	1-1337481-0
7	C1 C2 C9	10uF 10V SMD Tantalum Capacitor case A	Kemet	T491A106K010AT
8	C15	10nF 0603 SMD Ceramic Capacitor 25V X7R	Phycomp	2238 916 15636
9	C3 C4 C5 C6 C7 C8 C10 C12	0.1uF 0603 SMD Ceramic Capacitor 16V X7R	Phycomp	2238 786 15649
10	TP1 TP2 TP3 TP4	1.32mm PCB Test Terminal BLACK	Vero	20-2136
11	R10	33R 0603 SMD chip resistor 1% 0.063W	Multicomp	MC 0.063W 0603 1% 33R
12	C16	1uF 0805 SMD Ceramic Capacitor 10V X7R	Multicomp	N0805R105KCT
13	LNK_J2 LNK_J3 LNK_J11	0.1" OPEN JUMPER LINK RED	Protech	22-3565
14	LNK_J9	0.1" OPEN JUMPER LINK YELLOW	Protech	22-3570
15	R9	1k 0603 SMD chip resistor 1% 0.063W	TruOhm	72-9326
16	U1	Single Channel 16-bit CIS/CCD AFE with RGB LED Current Drive	Wolfson Microelectronics	WM8255BGELF
17	PCB1	PCB	Zot Engineering	WM8255B-6109-FL28-M-REV1
Unpop				
18	H1 H2	FSI-140 connector mating footprint		
19	C11 C13 C14 C17 C18	10uF 10V SMD Tantalum Capacitor case A	Kemet	T491A106K010AT
20	R11	33R 1206 SMD chip 4 resistor array 5% 0.063W	Phycomp	2350 035 10339
21	R2 R3 R4	0R 0603 SMD chip resistor 1% 0.063W	Multicomp	MC 0.063W 0603 0R
22	R1 R5 R7 R8	47R 0805 SMD chip resistor 1% 0.1W	Multicomp	MC 0.1W 0805 1% 47R

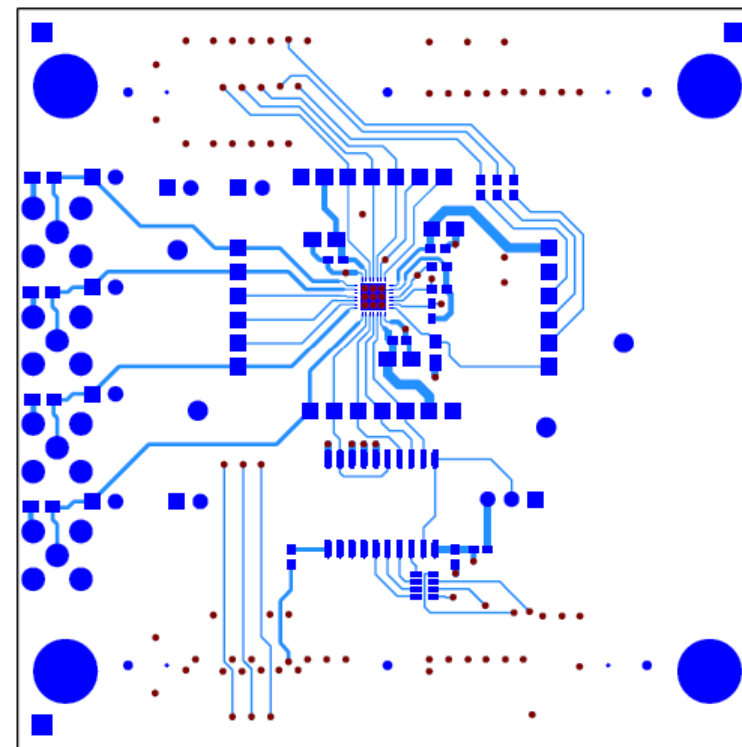
PCB LAYOUT



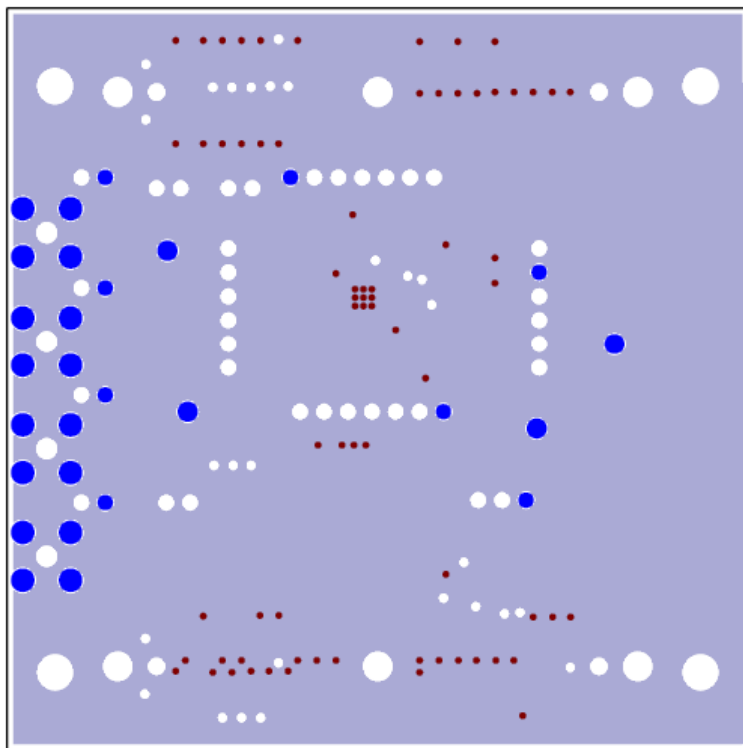
Top Layer: Overview



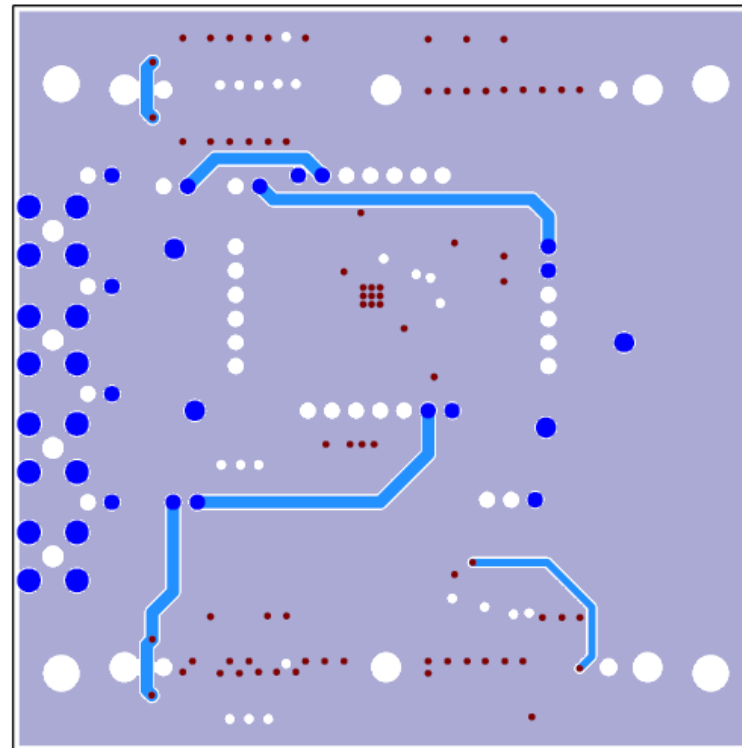
Top Layer: Silkscreen + Copper



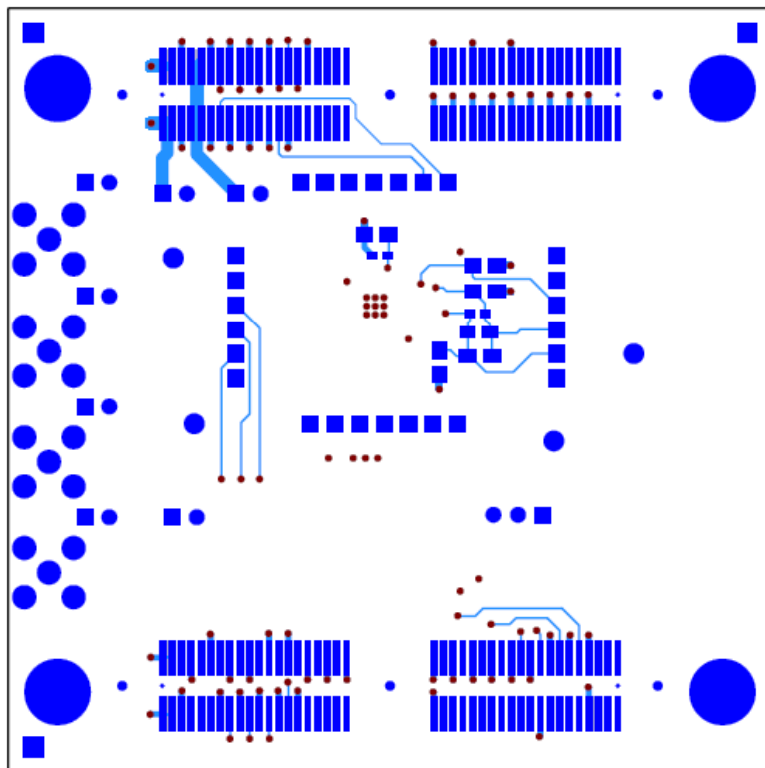
Top Layer: Copper



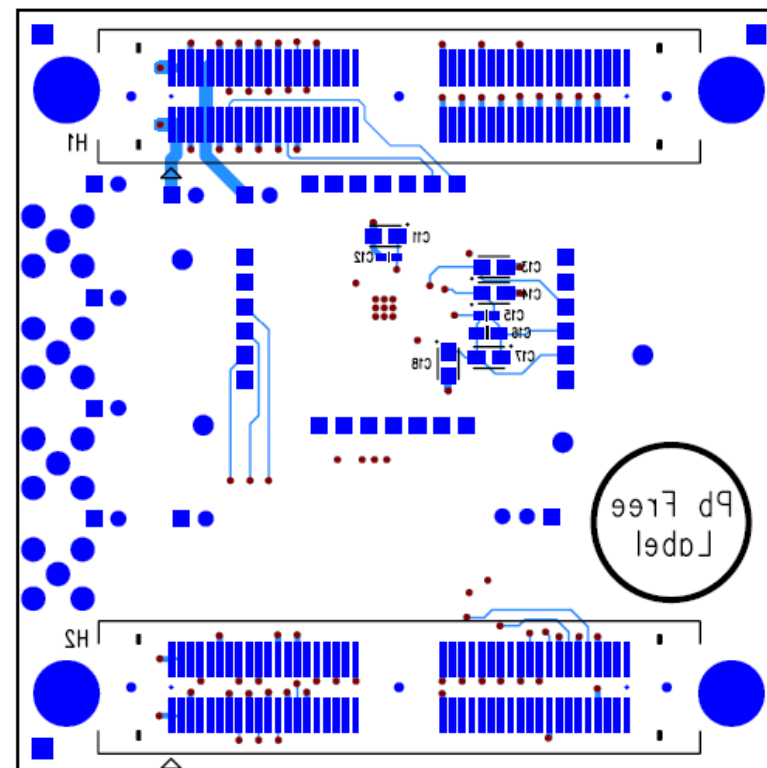
Layer 2: Copper



Layer 3: Copper



Bottom Layer: Copper



Bottom Layer: Silkscreen + Copper

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