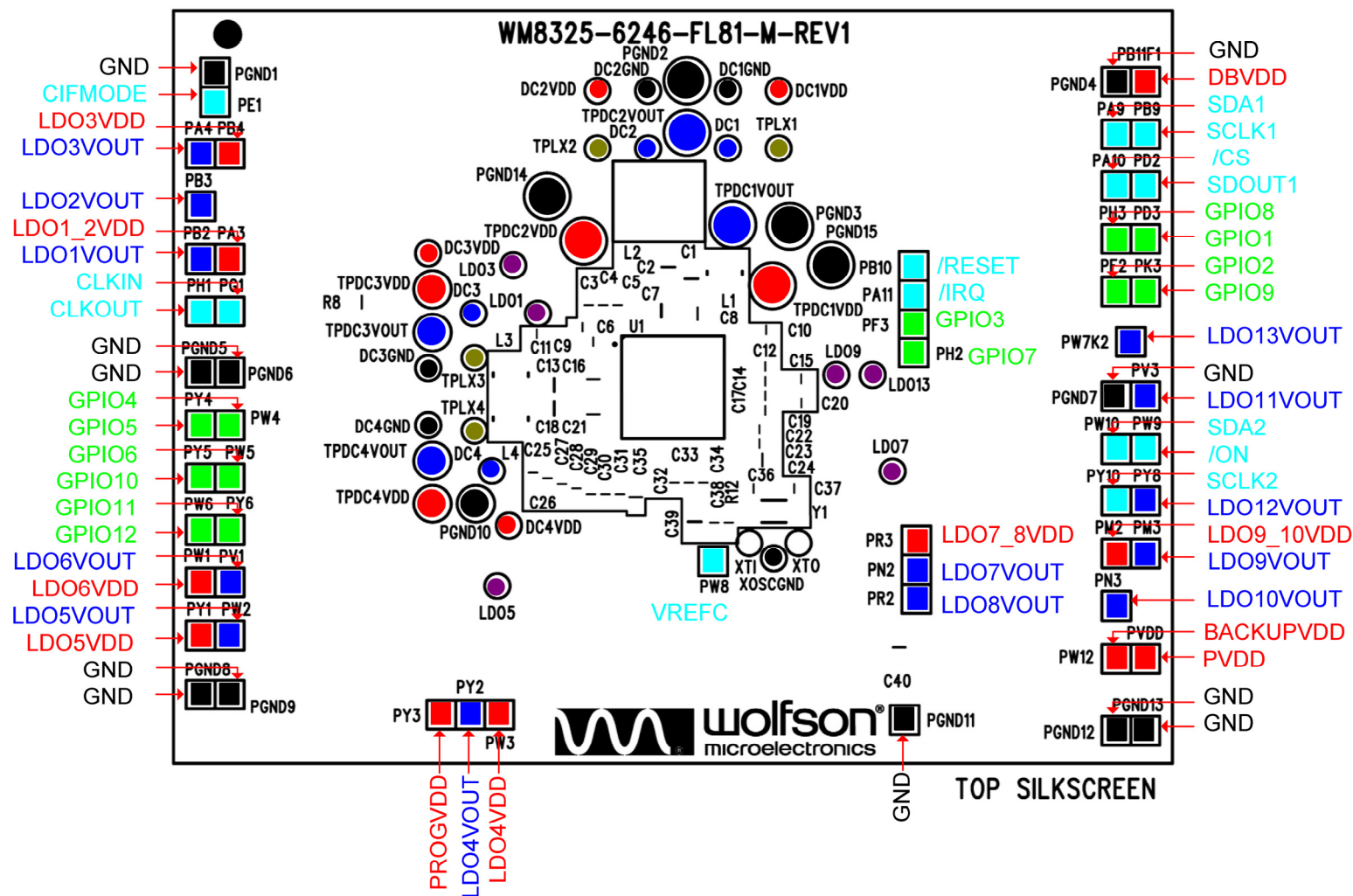


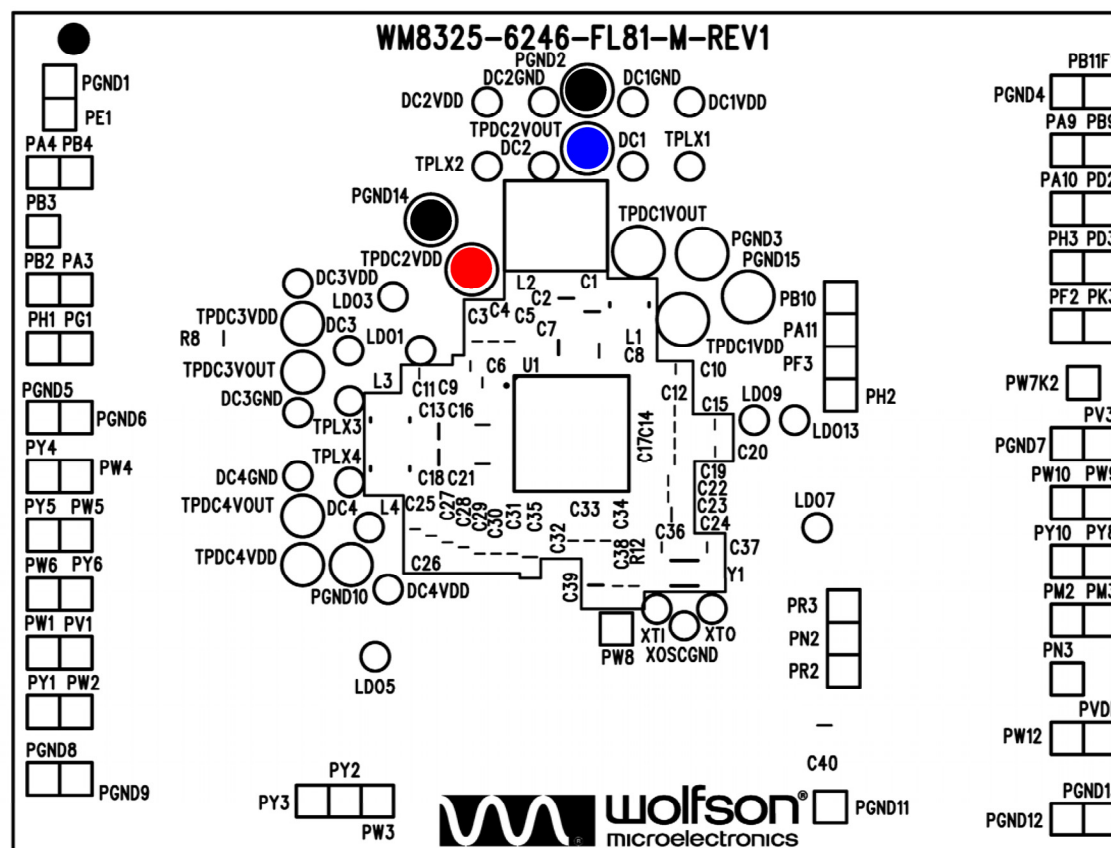
DOC TYPE:	SCHEMATIC AND LAYOUT
BOARD REFERENCE:	WM8325-6246-FL81-M-REV1
BOARD TYPE:	Customer Mini
WOLFSON DEVICE(S):	WM8325
DATE:	August 2010
DOC REVISION:	Rev 1.0

Test Point Identification



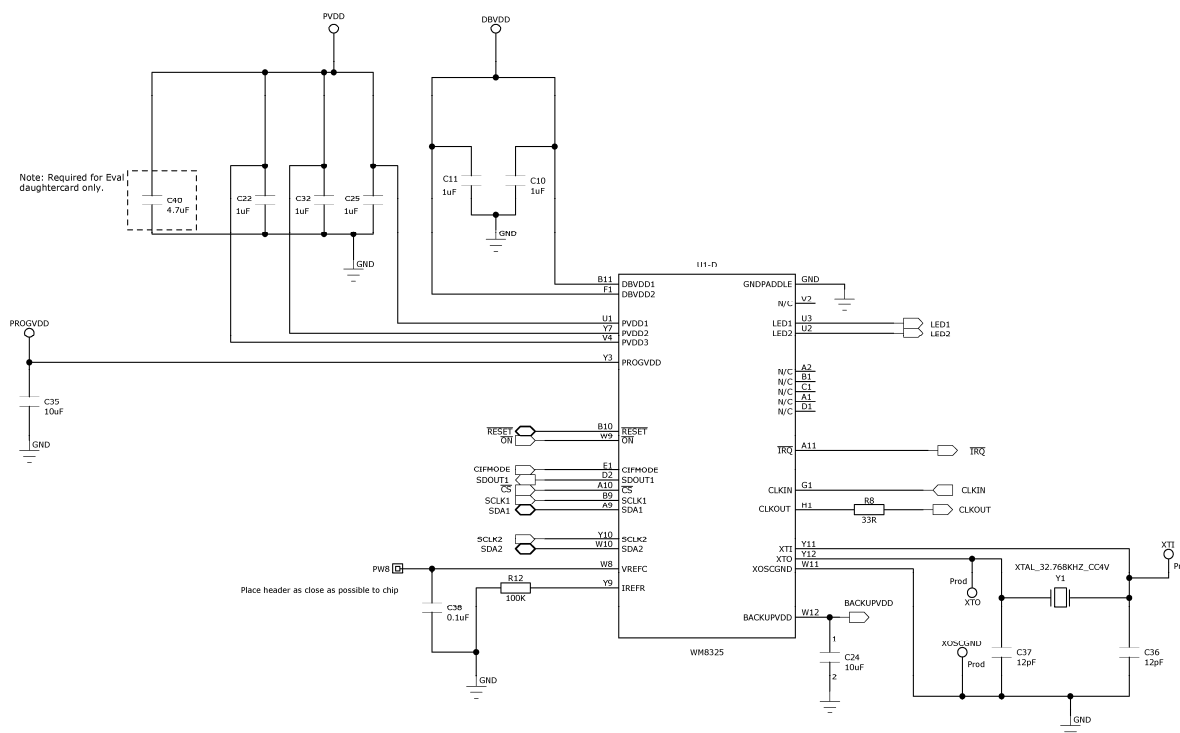
Disclaimer

The maximum current capability of DC-DC2 is 2.5A, therefore extra care should be taken when evaluating this DC-DC converter at full power. Wolfson recommend connecting the power source and the load directly onto the WM8325 mini-board using the **TPDC2VDD** and **TPDC2VOUT** test points respectively (with their associated grounds).

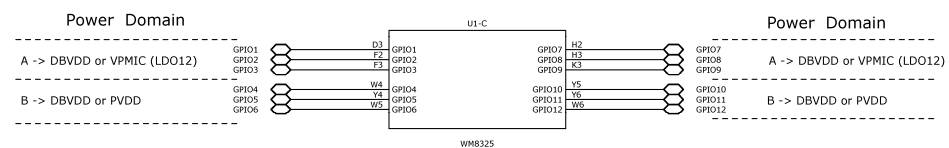


SCHEMATIC

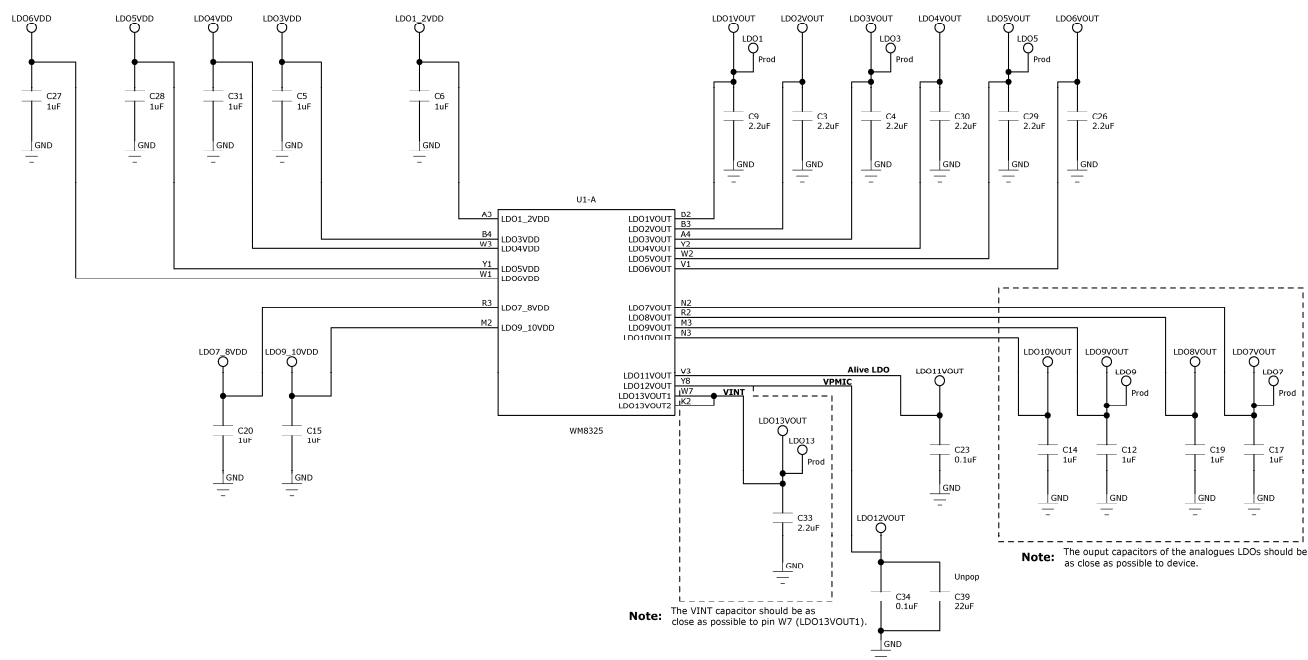
Sheet 1: Misc



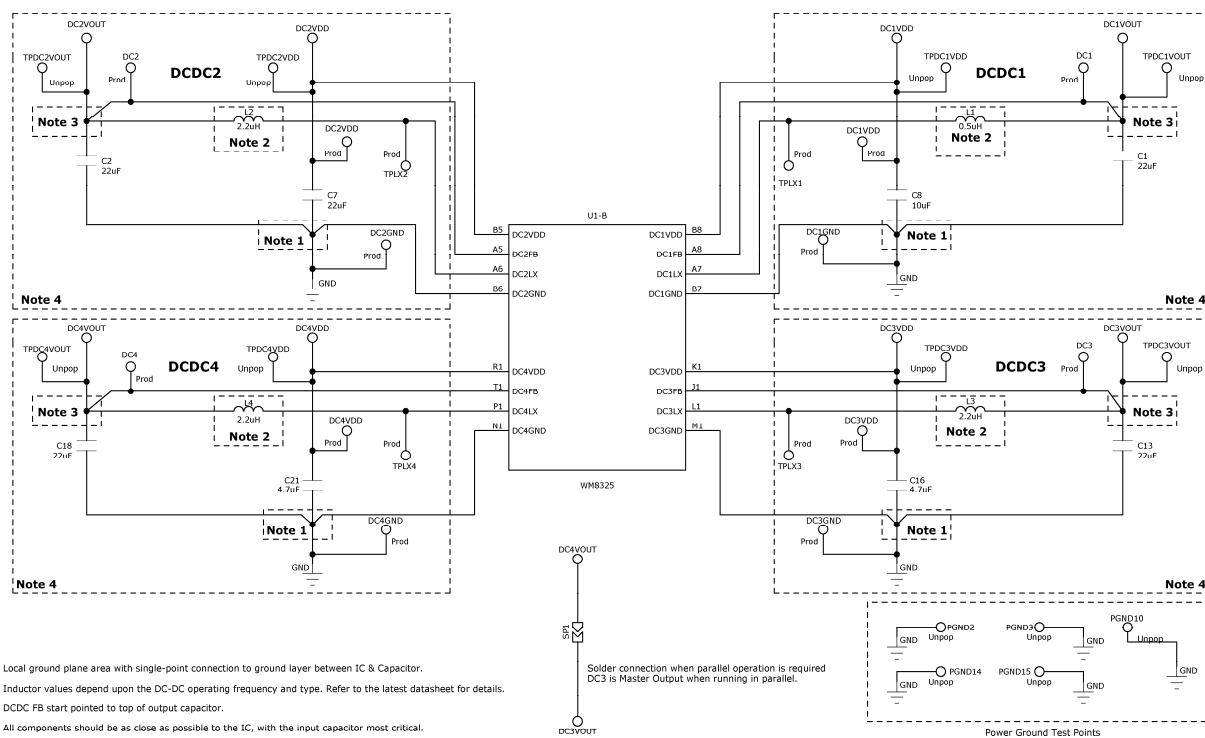
Sheet 2: AUXADC & GPIOs



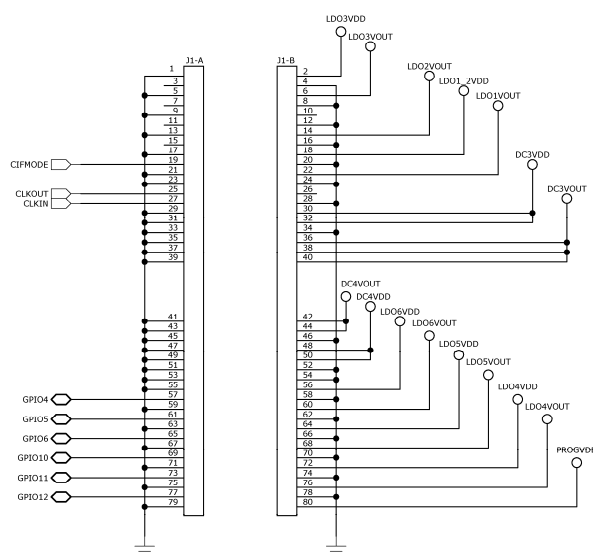
Sheet 3: LDO Regulators



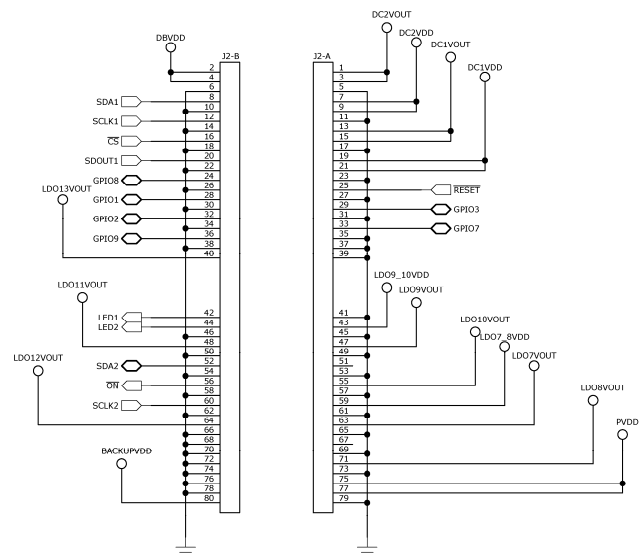
Sheet 4: DCDC Regulators



Sheet 5: Connectors



Bottom-side surface-mount connector



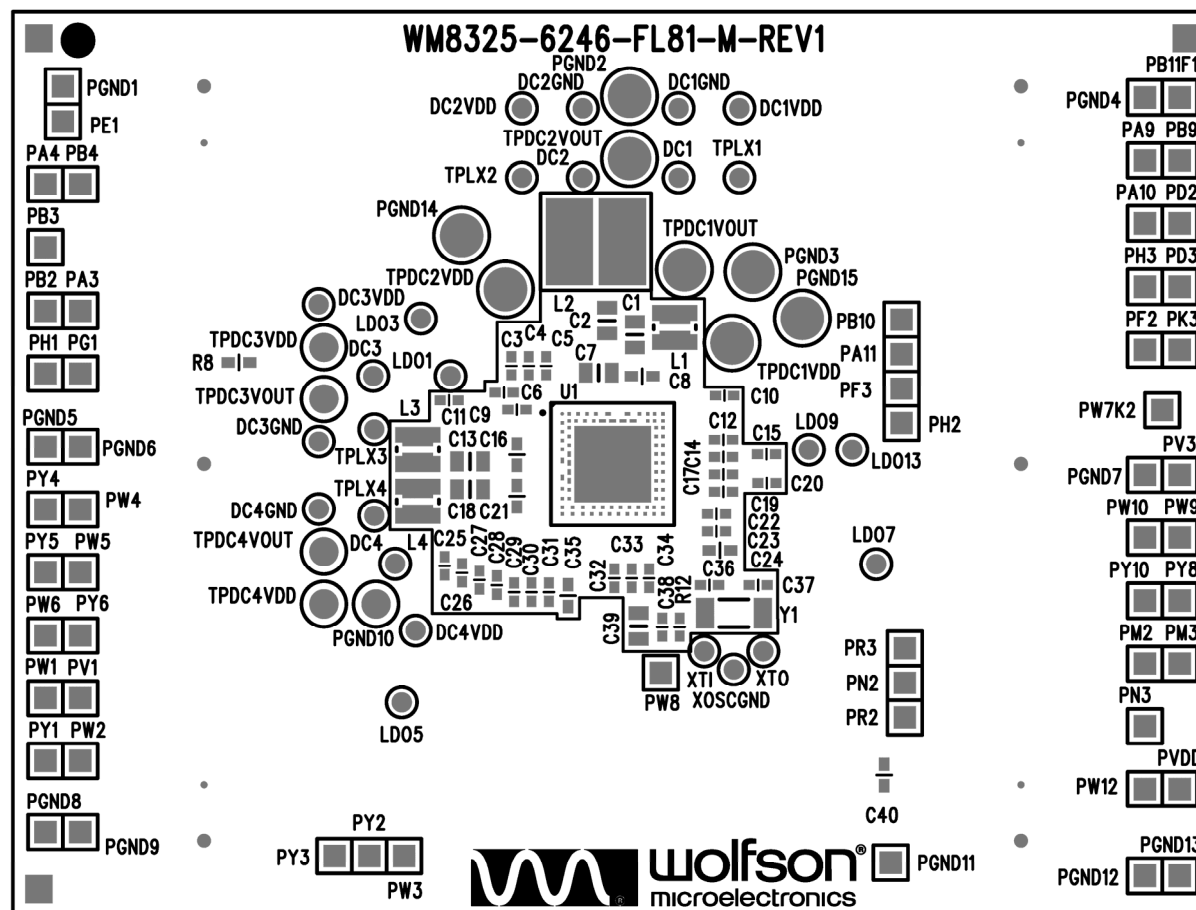
Bottom-side surface-mount connector

BILL OF MATERIALS (BOM)

<i>Item</i>	<i>RefDes</i>	<i>Description</i>	<i>Manufacturer</i>	<i>Manufacturer's Part Number</i>
1	L3 L4	2.2uH Shielded SM 1.1A Inductor LPS3015 Series	Coilcraft	LPS3015-222MLB
2	L1	0.5uH Shielded 2.35A SM Inductor XPL2010 Series	Coilcraft	XPL2010-501MLB
3	C36 C37	12pF 0402 SMD Ceramic Capacitor 50V C0G	MuRata	GRM1555C1H120JZ01D
4	C1 C2 C7 C13 C18	22uF 0805 SMD Ceramic Capacitor 6.3V X5R	MuRata	GRM21BR60J226ME39L
5	C16 C21 C40	4.7uF 0603 SMD Ceramic Capacitor 6.3V X5R	MuRata	GRM188R60J475KE19D
6	C5 C6 C10 C11 C12 C14 C15 C17 C19 C20 C22 C25 C27 C28 C31 C32	1uF 0402 SMD Ceramic Capacitor 10V X5R	MuRata	GRM155R61A105KE15D
7	C24	10uF 0603 SMD Ceramic Capacitor 6.3V X5R	MuRata	GRM188R60J106ME47D
8	L2	2.2uH Shielded 5.6A SM Inductor LQH6PP Series	Murata	LQH6PPN2R2N43
9	C8	10uF 0603 SMD Ceramic Capacitor 10V X5R	Panasonic	ECJ-1VB1A106M
10	C35	10uF 0603 SMD Ceramic Capacitor 10V X5R	Panasonic	ECJ-1VB1A106M
11	PA3 PA4 PA9 PA10 PA11 PB11F1 PB2 PB3 PB4 PB9 PB10 PD2 PD3 PE1 PF2 PF3 PG1 PGND1 PGND4 PGND5 PGND6 PGND7 PGND8 PGND9 PGND11 PGND12 PGND13 PH1 PH2 PH3 PK3 PM2 PM3 PN2 PN3 PR2 PR3 PV1 PV3 PVDD PW1 PW2 PW7K2 PW3 PW4 PW5 PW6 PW8 PW9 PW10 PW12 PY1 PY2 PY3 PY4 PY5 PY6 PY8 PY10	1x1 2.54mm pitch PCB Pin Header VERTICAL	Harwin	M20-9990245
12	C3 C4 C9 C26 C29 C30 C33	2.2uF 0402 SMD Ceramic Capacitor 6.3V X5R	Kemet	C0402C225M9PAC
13	R12	100K 0402 SMD chip resistor 1% 0.063W	Multicomp	0402WGF1003TCE
14	MISC1	Lead-free label, 15mm round	Pro Power	7827260
15	C23 C34 C38	0.1uF 0402 SMD Ceramic Capacitor 16V X7R	MuRata	GRM155R71C104KA88D
16	R8	33R 0603 SMD chip resistor 1% 0.063W	Multicomp	MC 0.063W 0603 1% 33R
17	Y1	32.768kHz CC4V SM Crystal 9pF	Golledge	CC4V-T1A 32.768kHz
18	PCB1	PCB	Kelan Circuits Ltd	WM8325-6246-FL81-M-REV1

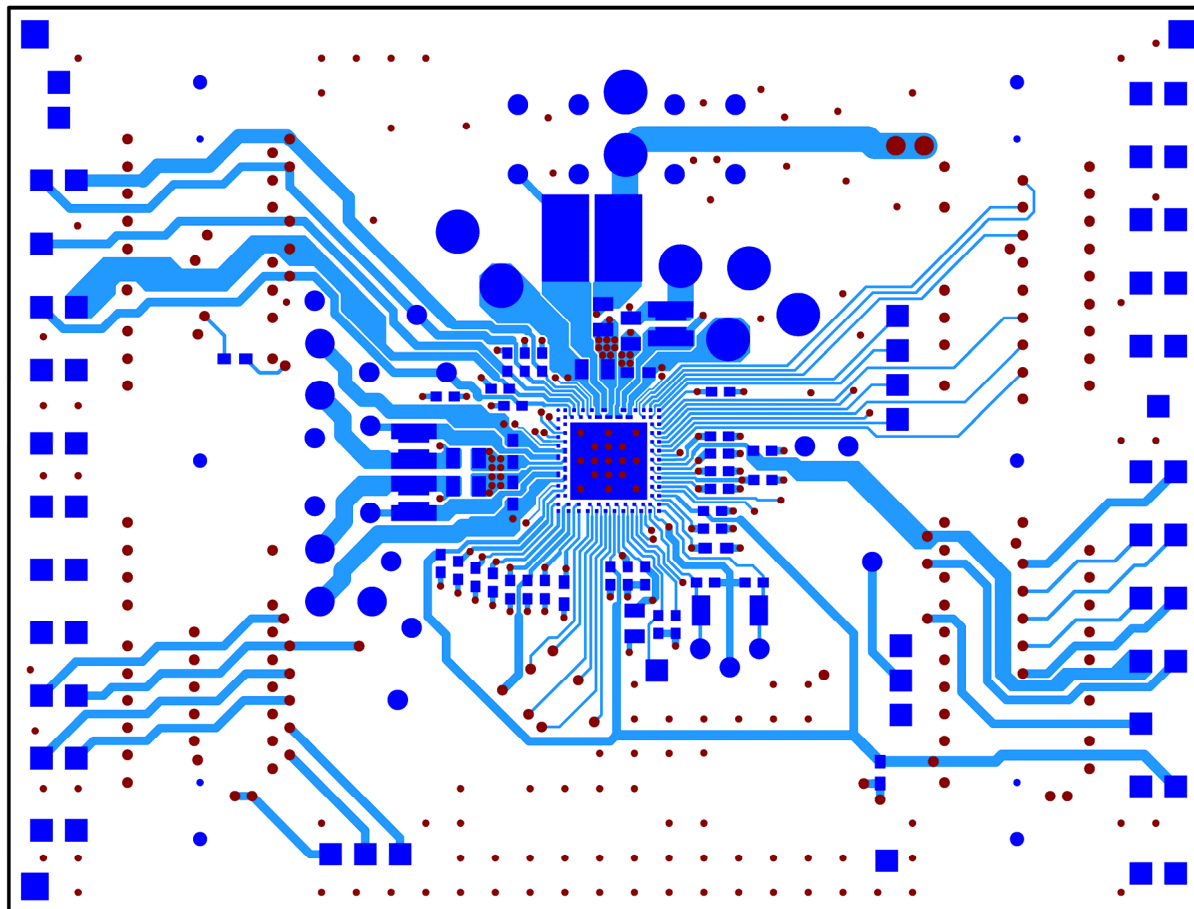
<i>Item</i>	<i>RefDes</i>	<i>Description</i>	<i>Manufacturer</i>	<i>Manufacturer's Part Number</i>
19	U1	WM8325 Power Management Subsystem	Wolfson Microelectronics plc	WM8325GEFL
Unpop				
20	DC4GND DC3GND	1.0mm PCB Hole test point		
21	DC1VDD DC4VDD DC2VDD DC3VDD DC2GND DC1GND DC1 DC2 DC3 DC4 LDO1 LDO3 LDO5 LDO7 LDO9 LDO13 TPLX1 TPLX2 TPLX3 TPLX4 XOSCGND XTI XTO	1.0mm PCB Hole test point		
22	J1 J2	FSI-140 connector mating footprint		
23	PGND2 PGND3 PGND14 PGND15 TPDC2VOUT TPDC2VDD TPDC1VOUT TPDC1VDD	1.95mm on-board connection point		
24	C39	22uF 0805 SMD Ceramic Capacitor 6.3V X5R	MuRata	GRM21BR60J226ME39L
25	PGND10 TPDC4VDD TPDC3VOUT TPDC3VDD TPDC4VOUT	1.32mm off-board connection point	N/A	N/A
26	SP1	Surface mount shorting point	N/A	N/A

PCB LAYOUT

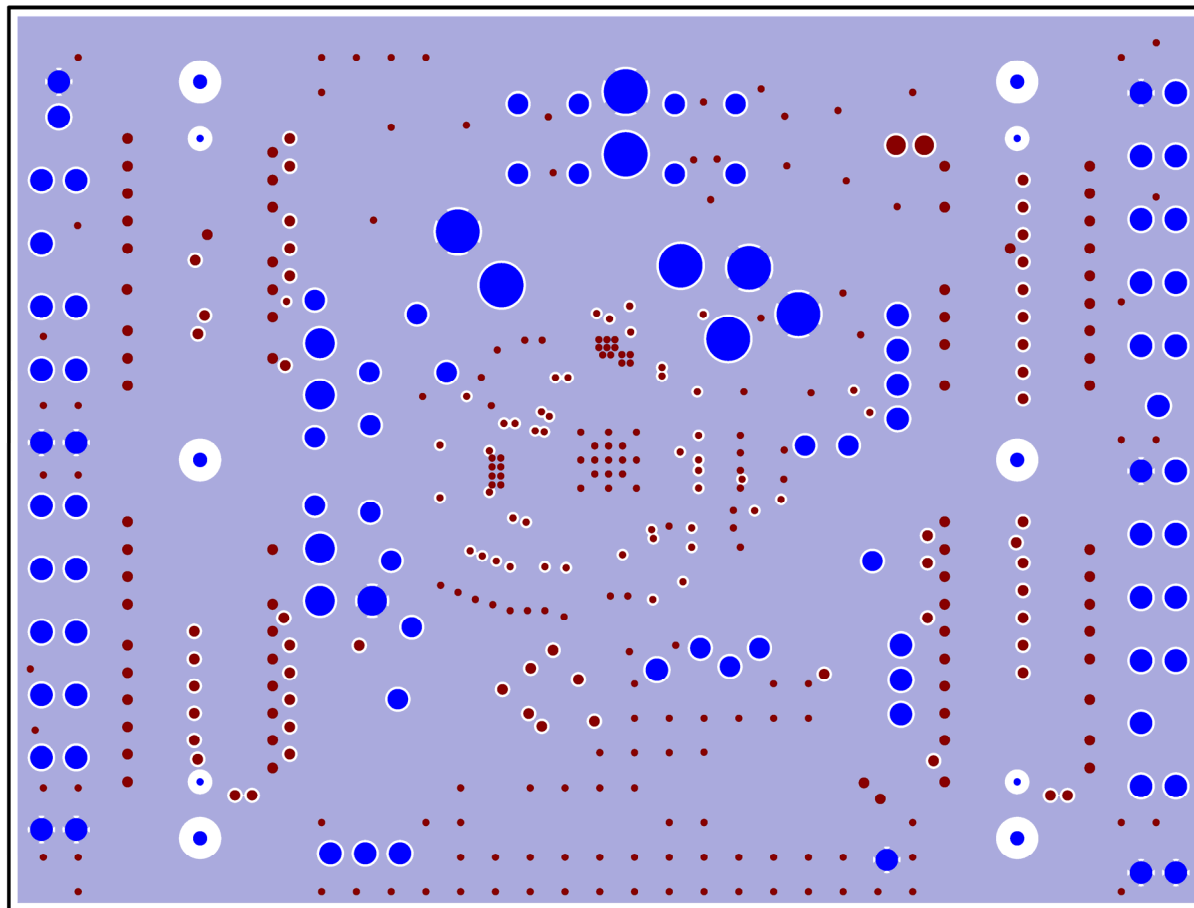


Top Layer: Overview

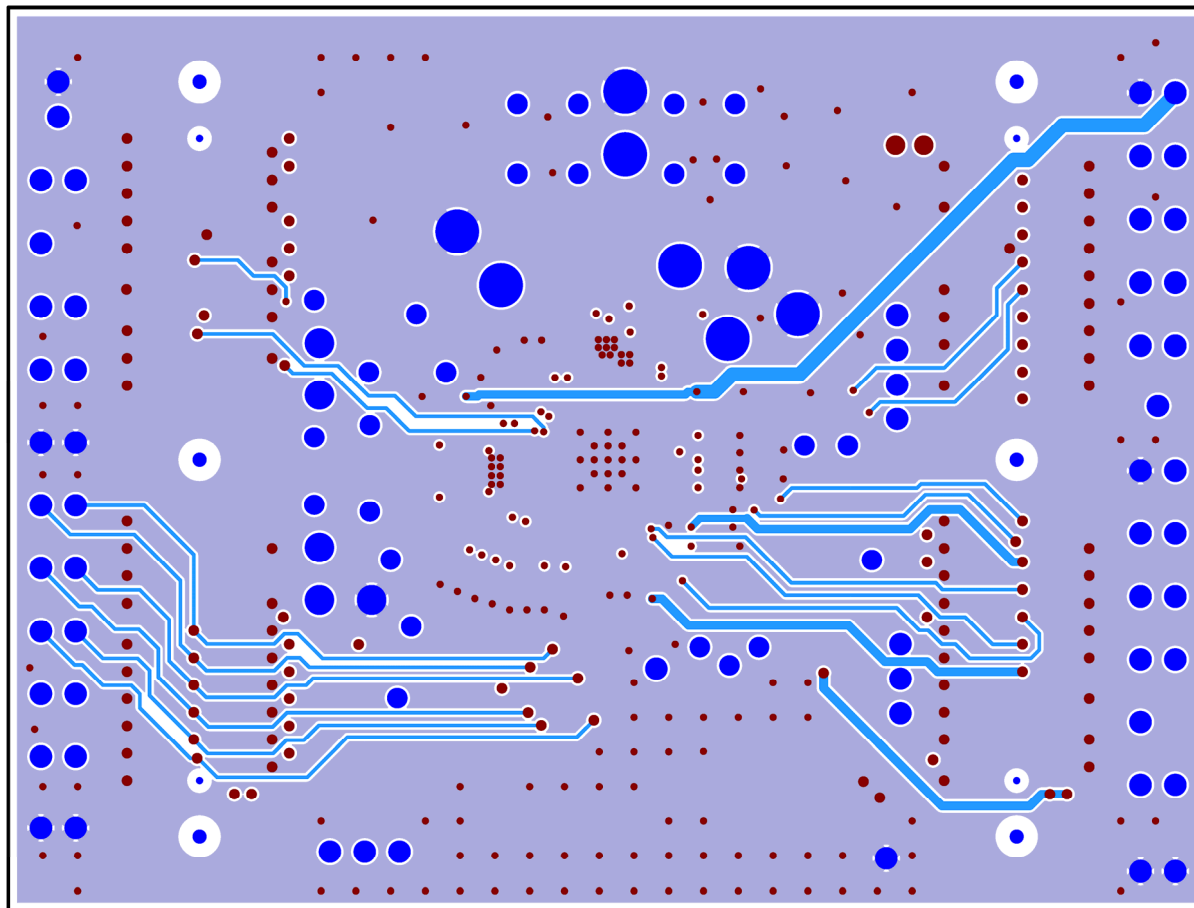




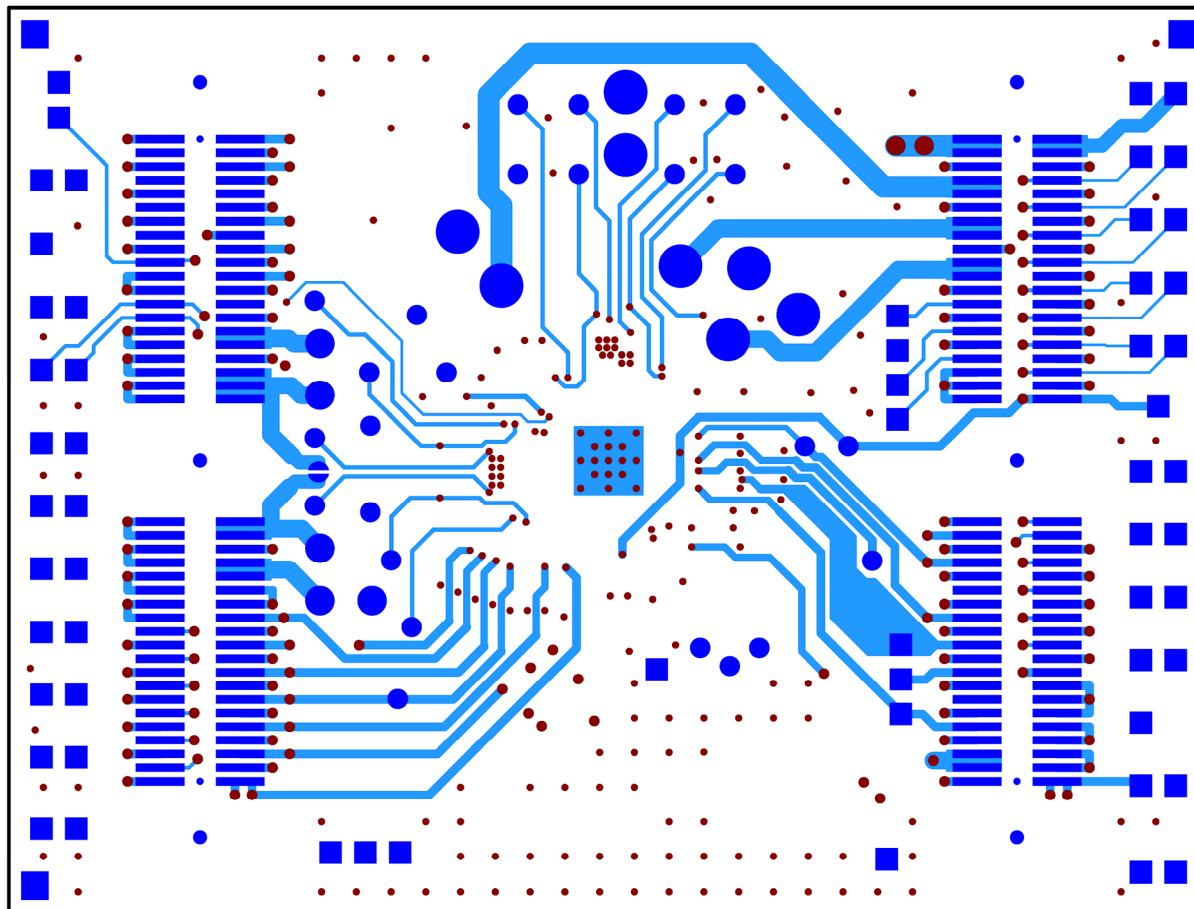
Top Layer: Copper



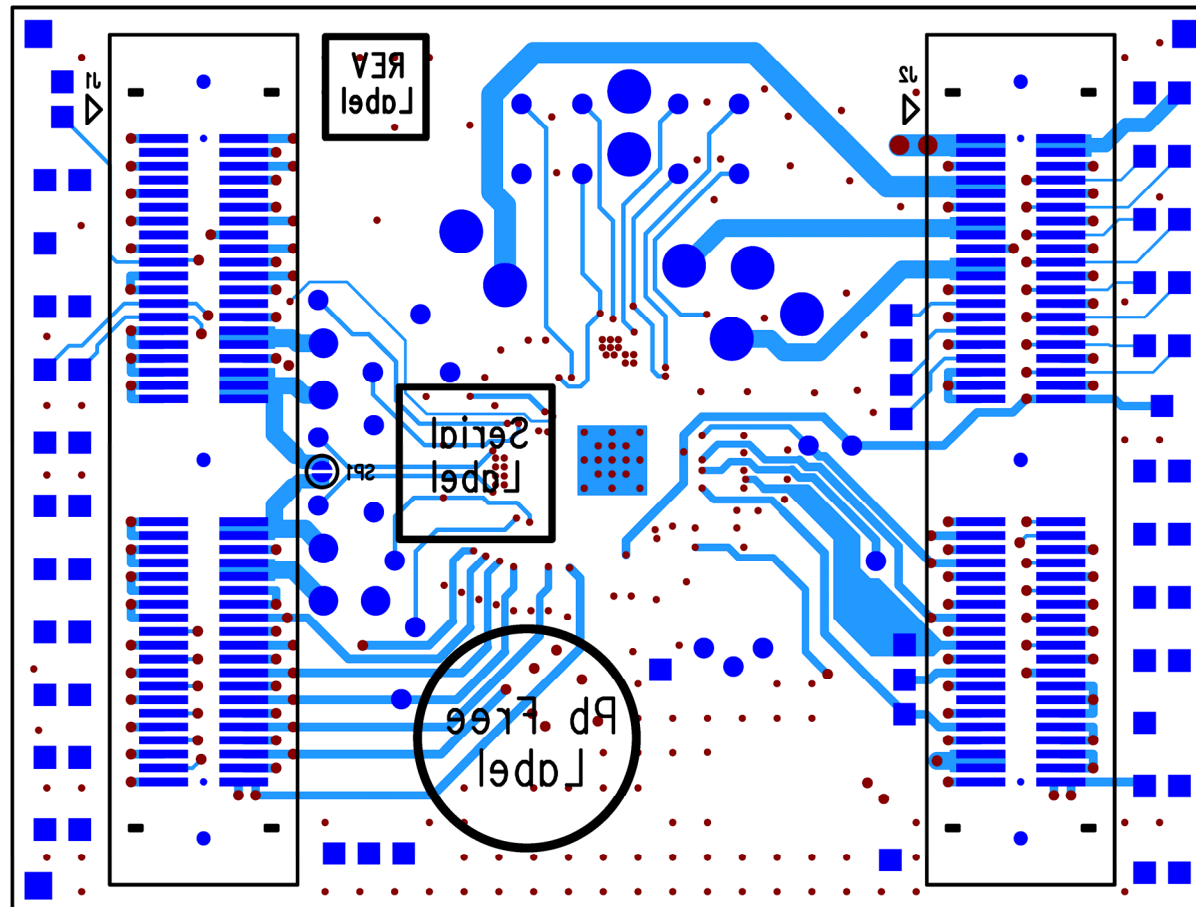
Layer 2: Copper



Layer 3: Copper



Bottom Layer: Copper



Bottom Layer: Silkscreen + Copper

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