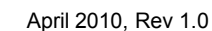


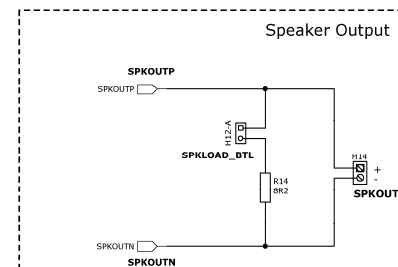
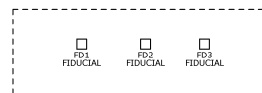
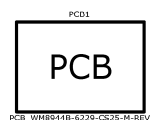
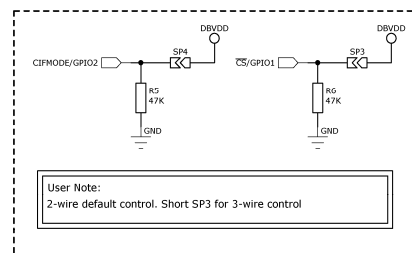
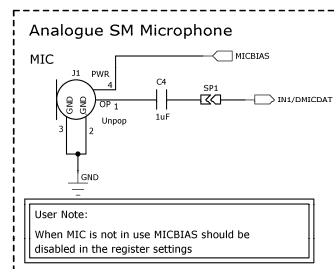
DOC TYPE:	SCHEMATIC AND LAYOUT
BOARD REFERENCE:	WM8944B-6229-CS25-M-REV1
BOARD TYPE:	Customer Mini
WOLFSON DEVICE(S):	WM8944B
DATE:	April 2010
DOC REVISION:	Rev 1.0



Sheet 1: WM8944B



Sheet 2: Analogue I/O



User Note:
Links 113 & 114 (SPKOUTL & SPKOUTR) must be opened on main board.

	Short	Open
H5-B	AVDD to DUT	No AVDD to DUT
PCB Ref:	LDOVDD	Open

	Short	Open
H6-B	HPVDD to DUT	No HPVDD to DUT
PCB Ref:	SPKVDD	Open

	Short	Open
H7-B	DBVDD to DUT	No DBVDD to DUT
PCB Ref:	DBVDD	Open

	Short	Open
H8-B	DCVDD to DUT	No DCVDD to DUT
PCB Ref:	DCVDD	Open

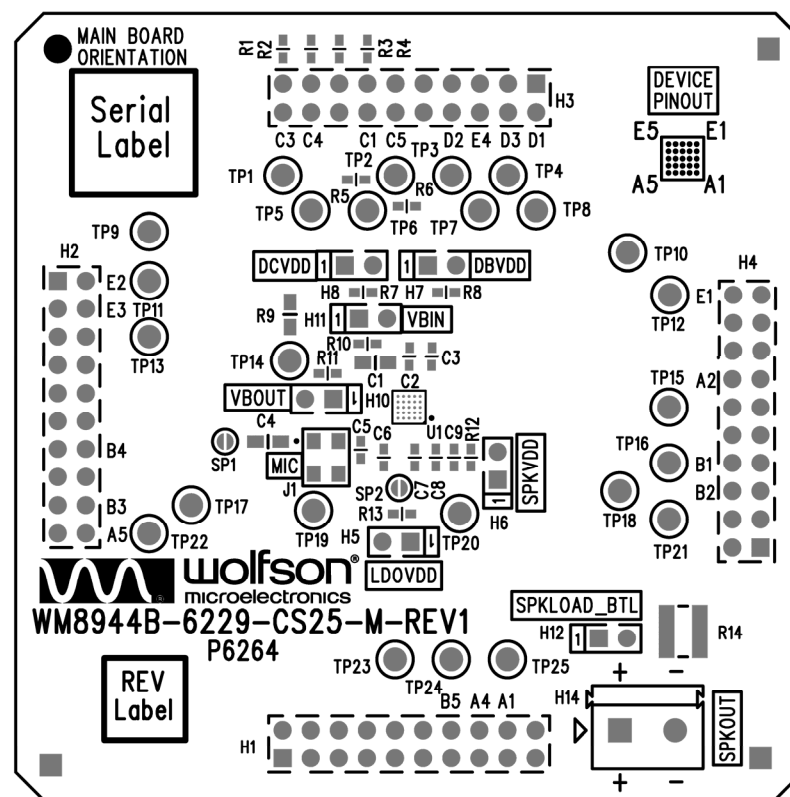
	Short	Open
H12-B	8ohm BTL	No Load
PCB Ref:	SPKLOAD_BTL	Short

LINK2 YELLOW
FR to H12:1-2

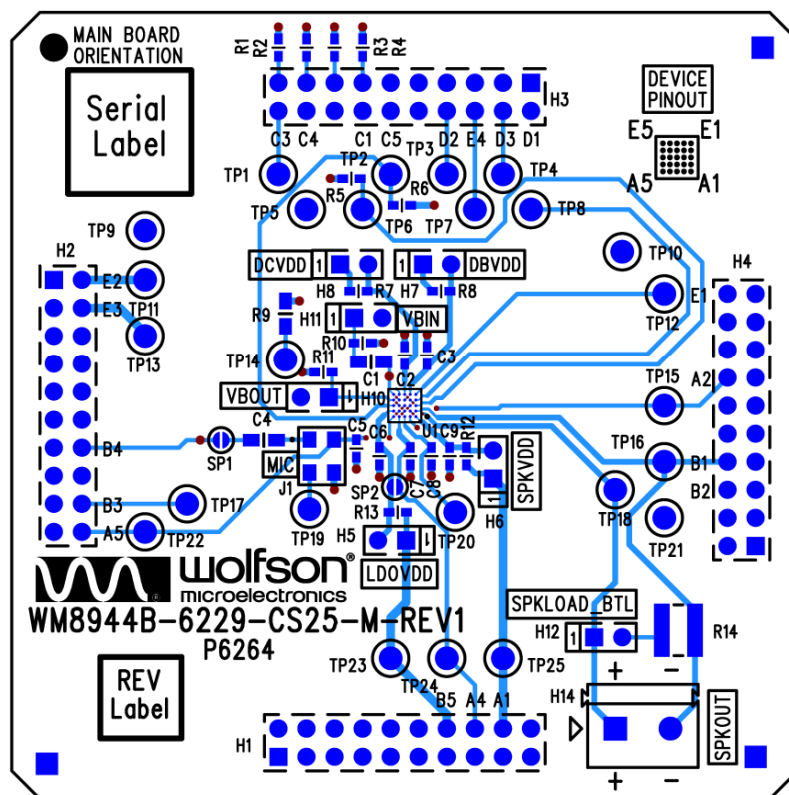
BILL OF MATERIALS (BOM)

Item	RefDes	Description	Manufacturer	Manufacturer's Part Number
1	R9	187R 0805 SMD chip resistor 1% 0.125W	Yageo	RC0805FR-07187RL
2	C7	2.2uF 0603 SMD Ceramic Capacitor 6.3V X5R	MuRata	GRM185R60J225KE26D
3	C5 C6 C8 C9	4.7uF 0603 SMD Ceramic Capacitor 6.3V X5R	MuRata	GRM188R60J475KE19D
4	H12	1x2 PCB Pin Header 0.1" VERTICAL	Harwin	M20-9990245
5	H14	PCB mount 1X2 terminal block for 2.5mm wire guage	LUMBERG	KRM 02
6	MISC2	Lead-free label, 15mm round	Pro Power	7827260
7	C2 C3	0.1uF 0603 SMD Ceramic Capacitor 16V X7R	Phycomp	2238 786 15649
8	TP9 TP10 TP19 TP21	1.32mm PCB Test Terminal BLACK	Vero	20-2136
9	R14	8R2 1218 SMD chip resistor 1% 1W	Phycomp	2322 7357 8208
10	R5 R6	47K 0603 SMD chip resistor 1% 0.063W	Multicomp	MC 0.063W 0603 1% 47K
11	R10 R11	75R 0603 SMD chip resistor 1% 0.063W	Multicomp	MC 0.063W 0603 1% 75R
12	R1 R3 R7 R8 R12 R13	0R 0603 SMD chip resistor 1% 0.063W	Multicomp	MC 0.063W 0603 0R
13	C1 C4	1uF 0805 SMD Ceramic Capacitor 10V X7R	Multicomp	N0805R105KCT
14	LNK12	0.1" OPEN JUMPER LINK YELLOW	Protech	22-3570
15	H1 H2 H3 H4	2x10 2.54mm pitch PCB Socket Strip VERTICAL Long Lead	Samtec	SSQ-110-03-G-D
16	PCB1	PCB	Kelan Circuits Ltd	WM8944B-6229-CS25-M-REV1
17	U1	WM8944B Mono Codec with Video Buffer	Wolfson Microelectronics plc	WM8944BECS
Unpop				
18	H5 H6 H7 H8 H10 H11	1x2 PCB Pin Header 0.1" VERTICAL	Harwin	M20-9990245
19	R2 R4	0R 0603 SMD chip resistor 1% 0.063W	Multicomp	MC 0.063W 0603 0R
20	SP1 SP2 SP3 SP4 SP5	Surface mount shorting point	N/A	N/A
21	TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP11 TP12 TP13 TP14 TP15 TP16 TP17 TP18 TP20 TP22 TP23 TP24 TP25	1.32mm off-board connection point	N/A	N/A
22	J1	WM7110 Analogue Silicon Surface Mount Microphone, Unamplified	Wolfson Microelectronics	WM7110EMS

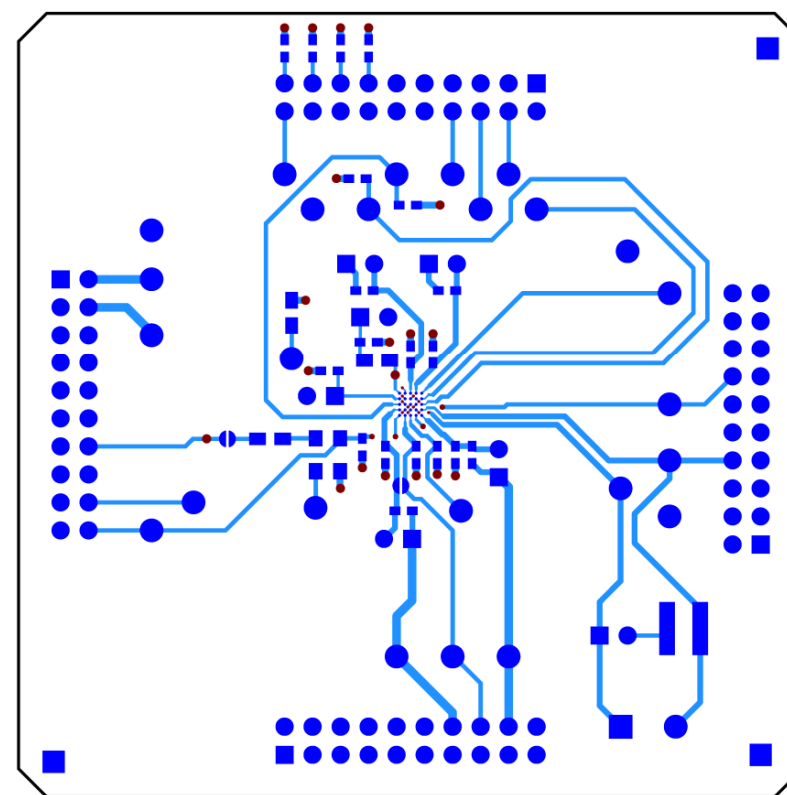
PCB LAYOUT



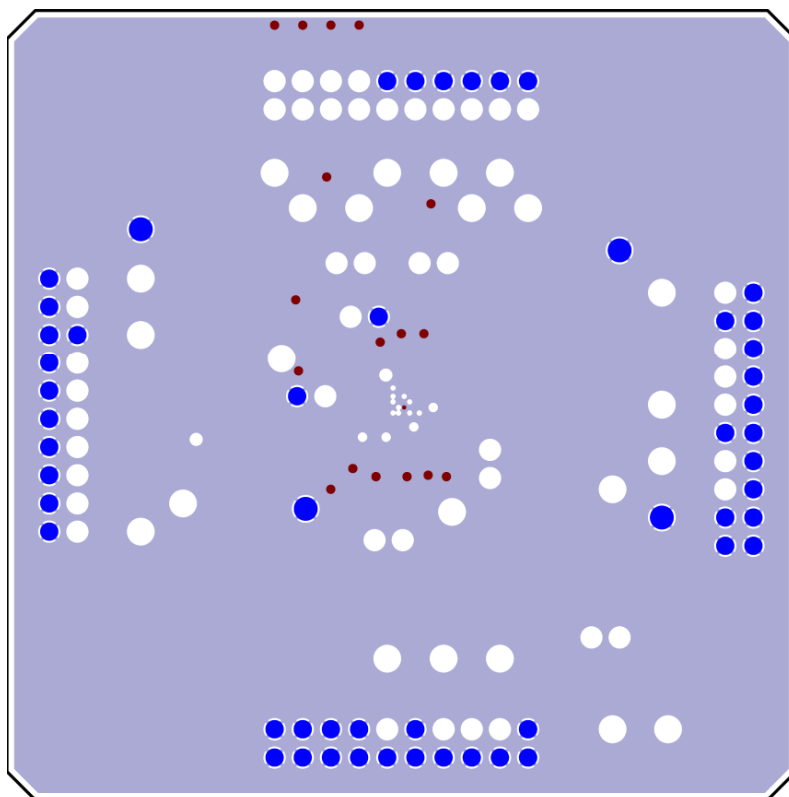
Top Layer: Overview



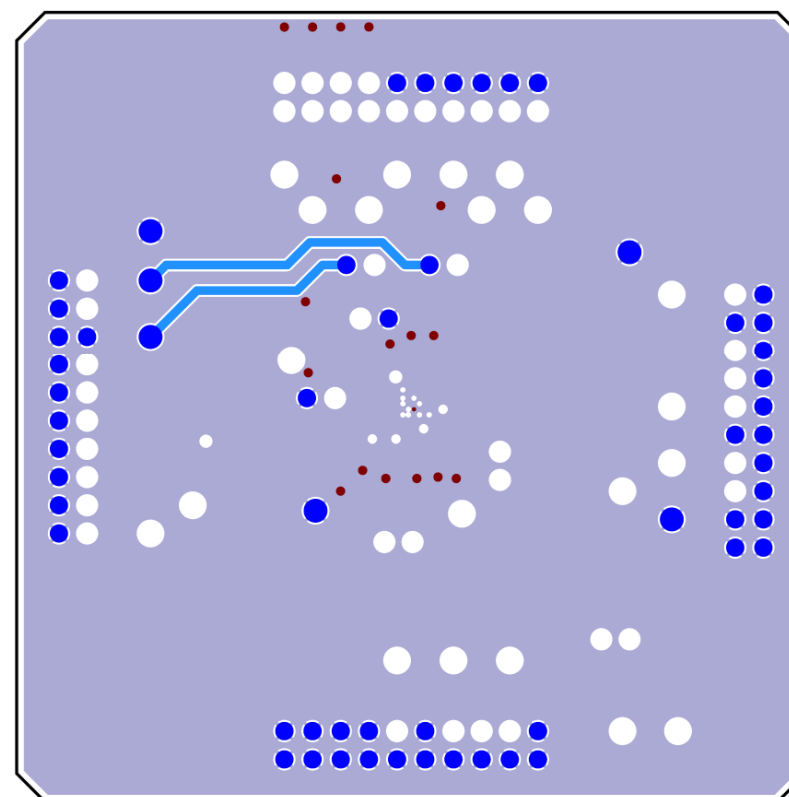
Top Layer: Silkscreen + Copper



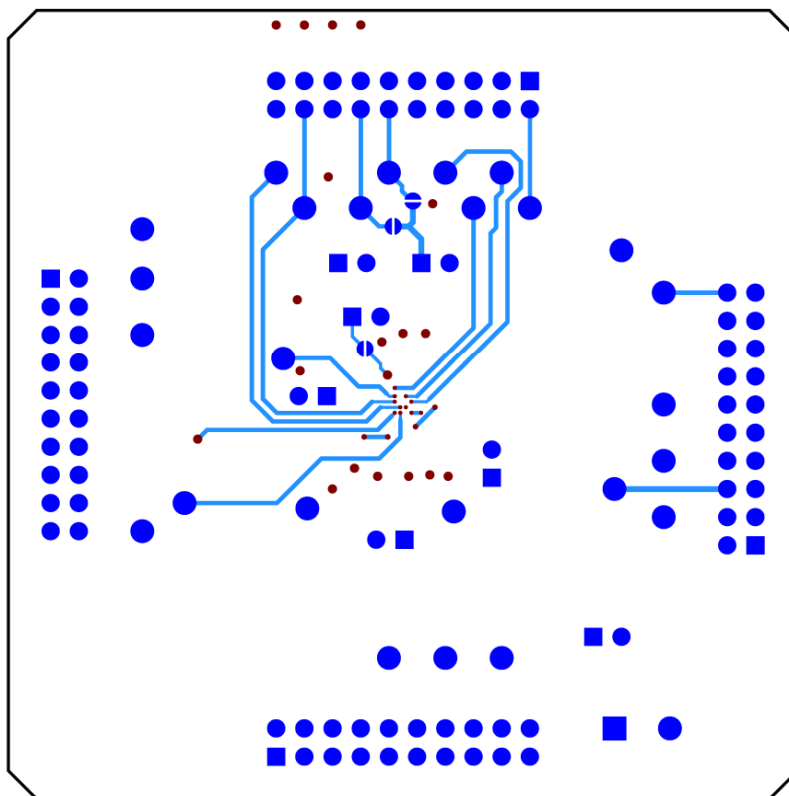
Top Layer: Copper



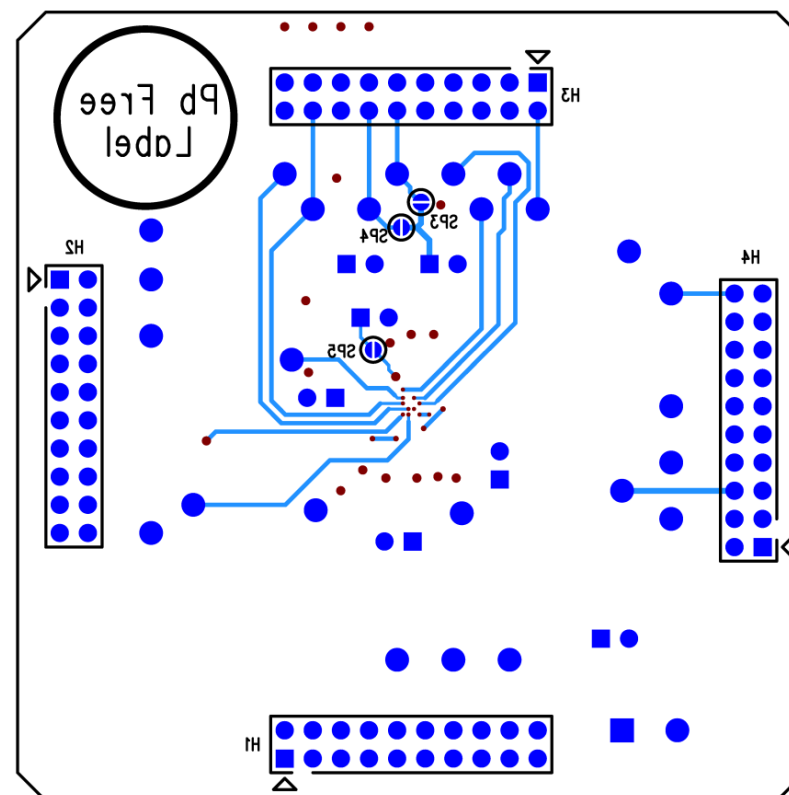
Layer 2: Copper



Layer 3: Copper



Bottom Layer: Copper



Bottom Layer: Silkscreen + Copper

APPLICATION SUPPORT

If you require more information or require technical support, please contact the Wolfson Microelectronics Applications group through the following channels:

Email: apps@wolfsonmicro.com
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Fax: +44 (0) 131 272 7001
Mail: Applications Engineering at the address on the last page

or contact your local Wolfson representative.

Additional information may be made available on our web site at: <http://www.wolfsonmicro.com>

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