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<td>DATE:</td>
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Sheet 5: Audio I/F Mux and Level Shift
Sheet 6: Analogue Inputs

Layout Notes:
Rear H7 close to J30

Ground Ref Points

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Sheet 10: Class D Speaker Outputs
Sheet 11: ReTune™ Demo Filter
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<th>Manufacturer's Part Number</th>
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<td>LPS4018-103ML</td>
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<td>Grip Seal Bag, 90x115MM</td>
<td>CPC</td>
<td>PA123</td>
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<td>Philips</td>
<td>74ALVC164245DL</td>
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<td>Texas Instruments</td>
<td>TAI020BPF8</td>
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<td>C57 C59 C61</td>
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<td>U8</td>
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<td>Fairchild Semiconductor</td>
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<td>9</td>
<td>J98</td>
<td>PCB Socket PCB mount: YELLOW</td>
<td>Dragon City</td>
<td>RS109 - Yellow</td>
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<td>10</td>
<td>J50 J51 J52 J53</td>
<td>4mm Gold Plated Non-Insulated Binding Post - Red</td>
<td>ESR</td>
<td>070-251</td>
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<td>PS1 PS2 PS3 PS4 PS5 PS6</td>
<td>0.35a Poly Switch 1210</td>
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<td>L1 L2</td>
<td>300R 0805 SMB2A Ferrite Bead</td>
<td>Meggitt</td>
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<td>20</td>
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<td>47uH 1210 Surface Mount Inductor ‘PA series’</td>
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<td>U12</td>
<td>TORX147PL Digital Audio Fiber Optic Receiver</td>
<td>Toshiba</td>
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<td>22</td>
<td>U10</td>
<td>Fiber Optic Transmitting Module for Digital Audio Interface</td>
<td>Toshiba</td>
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<td>23</td>
<td>SC101 SC102 SC103 SC104 SC106 SC107 SC108 SC109</td>
<td>Slotted Panhead Screw - M3 thread; 12mm long</td>
<td>TR Fasteners</td>
<td>M312 PSSTMCZ100-</td>
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### Schematic and Layout

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<td>TR Fasteners</td>
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<td>Q6 Q7 Q8 Q9 Q10 Q11</td>
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<td>Vishay</td>
<td>SI1902DL-T1-E3</td>
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<td>M16C2</td>
<td>Lead-free label, 15mm round</td>
<td>Pro Power</td>
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<td>29</td>
<td>C20</td>
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<td>AVX</td>
<td>TAJBY225K010R</td>
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<td>30</td>
<td>R24</td>
<td>1R60 1206 SMD chip resistor 5% 0.25W</td>
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<td>2312 1851 1508</td>
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<td>P101 P102 P103 P104 P106 P107 P108 P109</td>
<td>Hexagonal brass M3 size spacer 20mm length</td>
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<td>LED1 LED2 LED3 LED5</td>
<td>KP-1608MG 0603 SMD Chip LED GREEN</td>
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<td>LED4</td>
<td>KP-1608SURC 0603 SMD Chip LED RED</td>
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<td>KP-1608SURC</td>
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<td>TP10 TP11 TP13 TP20 TP21 TP22 TP23 TP24 TP25 TP26 TP27 TP28 TP29 TP30 TP31 TP32 TP33 TP34 TP35 TP36 TP37</td>
<td>1.32mm PCB Test Terminal BLACK</td>
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<td>TP14</td>
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<td>R25</td>
<td>10K 1206 SMD chip 4 resistor array 5% 0.03W</td>
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<td>2350 03510 103</td>
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<td>R43</td>
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<td>1UK 0U3 SMD Chip RESITOR 1% U UB3WV</td>
<td>Multicomponent</td>
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<td>Q3</td>
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<td>1N5337BG</td>
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<td>DS1818R-10+</td>
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<td>ST Microelectronics</td>
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<td>Microchip Technology</td>
<td>24LC64-I/P</td>
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<td>N/A</td>
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<td>J1 J2 J3 J4 J5 J6 J7 J8 J9 J10</td>
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<td>31101</td>
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<td>Rapid</td>
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<td>LNK1901 LNK1902 LNK1906 LNK1908 LNK1919 LNK1924 LNK1925 LNK1936 LNK2260 LNK2261 LNK2606 LNK2701 LNK2702 LNK2705 LNK2706 LNK_H6-5 LNK_H6-4 LNK_H6-3 LNK_H6-2 LNK_H6-1 LNK_J28 LNK_J30 LNK_J31 LNK_J38 LNK_J40 LNK_J41 LNK_J42 LNK_J43 LNK_J44 LNK_J45 LNK_J46 LN</td>
<td>0.1” OPEN JUMPER LINK YELLOW</td>
<td>Protech</td>
<td>22 3670</td>
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<td>TruOhm</td>
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<td>J19</td>
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<td>Samtec</td>
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<td>WM8804 1:1 Digital Interface Transceiver with PLL</td>
<td>Wolfson Microelectronics</td>
<td>WM8804GEDS</td>
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<td>1.32mm PCB Test Terminal RED</td>
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<tr>
<td>09</td>
<td>D9 D10 D11 D12 D13 D14</td>
<td>TVS Diode  PCG05V002DT Vrwm=5V dual ESD Protection SOT23</td>
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<td>PCGD5V002DT</td>
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<td>90</td>
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<td>Surface mount shorting point</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>92</td>
<td>TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP12</td>
<td>1.32mm off board connection point</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
PCB LAYOUT

Top Layer: Overview
Top Layer: Silkscreen + Copper
Top Layer: Copper
Layer 2: Copper
Layer 3: Copper
Bottom Layer: Copper
TECHNICAL SUPPORT

If you require more information or require technical support, please contact the nearest Wolfson Microelectronics regional office:
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or one of our global distributors:
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