<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Part Description</th>
<th>Designators</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>Capacitor – 5%, 22pF/10V, Polypropylene</td>
<td>C7, C8</td>
</tr>
<tr>
<td>3</td>
<td>9</td>
<td>Capacitor – 5%, 0.1µF/10V, Polypropylene</td>
<td>C3, C4, C5, C6, C12, C14, C16, C17, C18</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>Capacitor – 5%, 0.22µF/10V, Polypropylene</td>
<td>C1, C2, C9, C10, C11</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>Capacitor - 5%, 0.047µF/10V, Polypropylene</td>
<td>C13, C15</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>Capacitor - 5%, 10µF/10V, Electrolytic</td>
<td>C19</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>Capacitor - 5%, 0.0018µF /10V, Polypropylene</td>
<td>C20</td>
</tr>
<tr>
<td>13</td>
<td>1</td>
<td>Display – 14-pin, 16x2 LCD</td>
<td>DS1</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td>Jack – RJ-45 Connector / Transformer, Midcom 0810-1X1T-06</td>
<td>J1</td>
</tr>
<tr>
<td>17</td>
<td>1</td>
<td>Jack – 6-pin Male pin header, MA03-02</td>
<td>J2</td>
</tr>
<tr>
<td>19</td>
<td>1</td>
<td>Jack – RJ-11 Connector, AMP 520542-2</td>
<td>J3</td>
</tr>
<tr>
<td>21</td>
<td>1</td>
<td>Jack – 8-pin Female pin header, FE08-01</td>
<td>J4</td>
</tr>
<tr>
<td>23</td>
<td>2</td>
<td>Jack – 7-pin Female pin header, FE07-01</td>
<td>J5, J6</td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td>Jack – 4-pin Male pin header, MA04-01</td>
<td>J7</td>
</tr>
<tr>
<td>27</td>
<td>1</td>
<td>Jack – Coaxial Power Connector, 2.5mm</td>
<td>J8</td>
</tr>
<tr>
<td>29</td>
<td>2</td>
<td>Jack – 2-pin Male quick connector, AMP M02</td>
<td>J9, J10</td>
</tr>
<tr>
<td>31</td>
<td>1</td>
<td>Keypad – 4x4 custom keypad – 8pin</td>
<td>KP1</td>
</tr>
<tr>
<td>33</td>
<td>2</td>
<td>Microphone – 2 pin electrolytic microphone</td>
<td>MIC1</td>
</tr>
<tr>
<td>35</td>
<td>2</td>
<td>Plug – 7-pin Male pin header, MA07-01</td>
<td>P1, P2</td>
</tr>
<tr>
<td>37</td>
<td>1</td>
<td>Plug – 8-pin Male pin header, MA08-01</td>
<td>P3</td>
</tr>
<tr>
<td>39</td>
<td>2</td>
<td>Plug – 2-pin Female connector, AMP FE02</td>
<td>P4, P5</td>
</tr>
<tr>
<td>41</td>
<td>2</td>
<td>Resistor – 1% - 1/4W - 4.7kΩ</td>
<td>R1, R10</td>
</tr>
<tr>
<td>43</td>
<td>7</td>
<td>Resistor – 1% - 1/4W – 20kΩ</td>
<td>R2, R3, R4, R5, R14, R15, R22</td>
</tr>
<tr>
<td>45</td>
<td>4</td>
<td>Resistor – 1% - 1/4W – 49.9Ω</td>
<td>R6, R7, R8, R9</td>
</tr>
<tr>
<td>47</td>
<td>1</td>
<td>Resistor – 1% - 1/4W – 1MΩ</td>
<td>R11</td>
</tr>
<tr>
<td>49</td>
<td>3</td>
<td>Resistor – 1% - 1/4W - 220kΩ</td>
<td>R12, R13, R23</td>
</tr>
<tr>
<td>51</td>
<td>1</td>
<td>Resistor – 1% - 1/4W – 115kΩ</td>
<td>R16</td>
</tr>
<tr>
<td>53</td>
<td>1</td>
<td>Resistor – 1% - 1/4W – 10kΩ</td>
<td>R17</td>
</tr>
<tr>
<td>55</td>
<td>2</td>
<td>Resistor – 1% - 1/4W – 2kΩ</td>
<td>R18, R19</td>
</tr>
<tr>
<td>57</td>
<td>1</td>
<td>Resistor – 1% - 1/4W – 3kΩ</td>
<td>R20</td>
</tr>
<tr>
<td>59</td>
<td>1</td>
<td>Resistor – 1% - 1/4W – 25kΩ</td>
<td>R21</td>
</tr>
<tr>
<td>61</td>
<td>1</td>
<td>Resistor – 1% - 1/4W – 12.4kΩ</td>
<td>R_{BIAS}</td>
</tr>
<tr>
<td>63</td>
<td>1</td>
<td>Speaker (Buzzer) – Piezo Buzzer, 3V-18V Operation</td>
<td>SP1</td>
</tr>
<tr>
<td>65</td>
<td>1</td>
<td>Speaker - 12Ω minimum</td>
<td>SP2</td>
</tr>
<tr>
<td>67</td>
<td>1</td>
<td>Switch – Momentary pushbutton switch</td>
<td>SW1</td>
</tr>
<tr>
<td>69</td>
<td>1</td>
<td>Motorola MC9S12NE64CPV (112-pin) microcontroller</td>
<td>U1</td>
</tr>
<tr>
<td>71</td>
<td>1</td>
<td>Motorola MC33202, Dual, low-voltage op-amp</td>
<td>U2</td>
</tr>
<tr>
<td>73</td>
<td>1</td>
<td>Maxim MAX548A, 8-bit DAC, SPI based</td>
<td>U3</td>
</tr>
<tr>
<td>75</td>
<td>1</td>
<td>Atmel AT25040A, 4k serial EEPROM (512x8)</td>
<td>U4</td>
</tr>
<tr>
<td>77</td>
<td>1</td>
<td>Motorola MC34119, low-voltage audio amplifier</td>
<td>U5</td>
</tr>
<tr>
<td>79</td>
<td>1</td>
<td>National Semiconductor LM1086-3.3, 3.3V Voltage Regulator</td>
<td>U6</td>
</tr>
<tr>
<td>81</td>
<td>1</td>
<td>Crystal – 25.000MHz, 25PPM</td>
<td>X1</td>
</tr>
</tbody>
</table>