

Appendix A: Analogue Board Bill of Material

Resistors

| Value | Quantity | Designators | Tolerance |
|-------|----------|-------------|------------|
| 100R | 9 | R49 – R57 | 5%, 1/4W |
| 1K | 1 | R33 | 5%, 1/4W |
| 10K | 3 | R30 – R32 | 1%, 1/4W |
| 100K | 25 | R1 – R25 | 0.1%, 1/8W |
| 150K | 3 | R26 – R28 | 1%, 1/4W |
| 2K2 | 1 | R58 | 1%, 1/4W |
| 22K | 3 | R46 – R48 | 5%, 1/4W |
| 4M7 | 2 | R44 – R45 | 5%, 1/4W |
| 68K | 1 | R29 | 5%, 1/4W |

Capacitors

| Value | Quantity | Designators | Type |
|------------------|----------|------------------|-------------------|
| 100 nF (0.1 uF) | 14 | C1-C8, C13 – C18 | Ceramic |
| 330 nF (0.33 uF) | 1 | C9 | Ceramic |
| 10 uF | 2 | C19 – C20 | Electrolytic, 25V |
| 4.7 uF | 3 | C10 - C12 | Electrolytic, 25V |

Trim Pots

| Value | Quantity | Designators | Type |
|-------|----------|-------------|------------------------|
| 10K | 8 | R34 – R41 | 25 Turn, Top Adjust |
| 100K | 2 | R42-R43 | 25 Turn, Top Adjust |

Diodes

| Value | Quantity | Designators | Description |
|--------|----------|-------------|--------------|
| 1N4148 | 28 | D1-D28 | Diode, Si |
| 1N4001 | 1 | D29 | Diode, Si |
| BAT85 | 1 | D30 | Schottky, Si |

Integrated Circuits

| Device | Quantity | Designators | Description |
|--------|----------|-------------|-------------------------------|
| 78L10 | 1 | U5 | 10V Linear Voltage Regulator |
| CD4051 | 1 | U7 | 1 of 8 Analog Mux |
| CD4066 | 4 | U1-U4 | Quad Analog Bi-Lateral Switch |
| TL072 | 1 | U6 | Dual Op Amp |
| TL074 | 3 | U8 – U10 | Quad Op Amp |