

## ICs

### Qty. Description

#### Amplifiers

- 1 AD8226 instrumentation amplifier (BOB\*)
- 1 ADTL082 JFET op amp (BOB)
- 1 AD8541 CMOS rail-to-rail op amp (BOB)
- 2 OP482 high speed JFET op amp (PDIP)
- 2 OP484 precision rail-to-rail I/O op amp (PDIP)
- 2 OP27 low noise, precision op amp (PDIP)
- 2 OP37 precision op amp (PDIP)
- 2 OP97 low power, high precision op amp (PDIP)

#### Sensors

- 1 AD8210 current shunt monitor (BOB)
- 1 AD22151 magnetic field sensor (BOB)
- 1 ADXL327 3-axis accelerometer (BOB)
- 2 AD22100 voltage temperature sensor (TO-92)
- 1 AD592 current temperature sensor (TO-92)
- 1 TMP01 temperature controller (PDIP)
- 1 MCE-100 electret microphone
- 1 QSC114 infrared transistor
- 1 B57164K103J 10 k $\Omega$  thermistor

#### Misc ICs

- 1 AD584 programmable  $V_{REF}$  (PDIP)
- 1 AD654 voltage-to-frequency converter (PDIP)
- 2 AD8561 comparator (PDIP)
- 1 ADP3300 LDO linear regulator (BOB)
- 1 SSM2220 PNP matched transistor (BOB)
- 1 SSM2212 NPN matched transistor (BOB)

\*Breakout board

**RoHS Compliant**

## Resistors

### Qty. Description

- 1 6.2  $\Omega$  (10 W)
- 5 1.1  $\Omega$
- 5 10  $\Omega$
- 5 47  $\Omega$
- 5 68  $\Omega$
- 5 100  $\Omega$
- 5 470  $\Omega$
- 5 1 k $\Omega$
- 5 1.5 k $\Omega$
- 5 2.2 k $\Omega$
- 5 4.7 k $\Omega$
- 5 6.8 k $\Omega$
- 5 10 k $\Omega$
- 5 20 k $\Omega$
- 5 47 k $\Omega$
- 5 68 k $\Omega$
- 5 100 k $\Omega$
- 5 200 k $\Omega$
- 5 470 k $\Omega$
- 5 1 M $\Omega$
- 5 5 M $\Omega$

## Potentiometers

### Qty. Description

- 1 5 k $\Omega$
- 2 10 k $\Omega$
- 1 50 k $\Omega$

## Capacitors

### Qty. Description

- 2 39 pF
- 2 100 pF
- 2 0.001  $\mu$ F
- 2 0.0047  $\mu$ F
- 2 0.01  $\mu$ F
- 2 0.047  $\mu$ F
- 2 0.1  $\mu$ F
- 2 1  $\mu$ F
- 2 4.7  $\mu$ F
- 2 10  $\mu$ F
- 2 22  $\mu$ F
- 2 47  $\mu$ F
- 1 220  $\mu$ F

## Transistors

### Qty. Description

- 3 2N3904
- 3 2N3906
- 1 CD4007
- 1 IRF510
- 1 TIP31CFS
- 1 TIP32CFS
- 1 ZVN2110A
- 2 ZVN3310
- 2 ZVP2110A

## LEDs

### Qty. Description

- 2 Green
- 2 Orange
- 2 Red
- 1 QED123 infrared LED

## Diodes

### Qty. Description

- 1 1N3064
- 1 1N4001
- 1 1N4735
- 4 1N914
- 1 OP999

## Inductors

### Qty. Description

- 1 1 mH
- 3 1  $\mu$ H
- 2 10  $\mu$ H
- 2 100  $\mu$ H
- 2 1000  $\mu$ H
- 2 10,000  $\mu$ H

## Other

### Qty. Description

- 1 Buzzer/speaker
- 1 630-tie solderless breadboard
- 1 Screwdriver: flathead
- 30 Jumper wires with pin ends



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