

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)
- 1 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 MIC electret microphone
- 1 QSD123 infrared transistor
- 1 B57164K103J 10 kΩ 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 Ω (10 W)
- 5 1.1 Ω
- 5 10 Ω
- 5 47 Ω
- 5 68 Ω
- 5 100 Ω
- 5 470 Ω
- 5 1 kΩ
- 5 1.5 kΩ
- 5 2.2 kΩ
- 5 4.7 kΩ
- 5 6.8 kΩ
- 5 10 kΩ
- 5 20 kΩ
- 5 47 kΩ
- 5 68 kΩ
- 5 100 kΩ
- 5 200 kΩ
- 5 470 kΩ
- 5 1 MΩ
- 5 5 MΩ

Potentiometers

Qty. Description

- 1 5 kΩ
- 2 10 kΩ
- 1 50 kΩ

Capacitors

Qty. Description

- 2 39 pF
- 2 100 pF
- 2 0.001 μF
- 2 0.0047 μF
- 2 0.01 μF
- 2 0.047 μF
- 2 0.1 μF
- 2 1 μF
- 2 4.7 μF
- 2 10 μF
- 2 22 μF
- 2 47 μF
- 1 220 μF

Transistors

Qty. Description

- 3 2N3904
- 3 2N3906
- 1 HEF4007
- 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

- 2 RFB0807-1R0L 1.0 μH
- 2 RFB0807-100L 10 μH
- 2 RFB0807-101L 100 μH
- 1 HPH1-1400L Hexa-Path magnetics (BOB)
- 1 HPH1-0190L Hexa-Path magnetics (BOB)

Other

Qty. Description

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



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