ICs

Qty. Description

Amplifiers

Qty.	Description
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

Qty.	Description
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)
2	AD592 current temperature sensor (TO-92)
1	TMP01 temperature controller (PDIP)
1	MCE-100 electret microphone
1	QSC114 infrared transistor
1	B57164K103J 10 kΩ thermistor

Misc ICs

Qty.	Description
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	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	μH
2	10	μH
2	100	μH
2	100	μH
2	1000	μH
2	10,000	μH

Coilcraft

coilcraft.com/students

Other

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