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## 1.5 Bill of Materials

Quantity	Designator	Value	Description	Footprint	DigikeyA	DigikeyB	Analog Devices	Mfg Part
1	U2	AD866ARM	2.7V, 800uA, 80MHz R/I-to-R/I IO Amplifier	TSSOP35-58X35	AD866ARMREELCT-ND	AD866ARMREELCT-ND	Analog Devices	AD866ARMZ-REEL
1	T1	LD821xx	General Purpose Transistor PNP Silicon	LD821	490-4744-1-ND	490-4744-2-ND	Murata	LD821-2540-200-001
1	Q1	BC857B	General Purpose Transistor PNP Silicon	SO-323C25	568-1638-1-ND	568-1638-2-ND	NXP	BC857B T/R
1	U1	BC857E887B	Capacitor	BGA168x15	POC220C0CT-ND	POC220C0CT-ND	Panasonic ECG	POC220C0CT-ND
1	C38	22pF	Capacitor	CR1005-0402	POC150C0CT-ND	POC150C0CT-ND	Panasonic ECG	ECJ-4E01H150J
11	C1, C29, C30, C31, C32, C33, C34, C35, C39, C40, C41	15pF	Capacitor	CR1005-0402	587-1283-1-ND	587-1430-2-ND	Taiyo Yuden	EMK107BJ22KA-T
16	C2, C5, C6, C7, C12, C13, C14, C17, C18, C20, C23, C25, C26, C27, C37	2.2uF	Capacitor	CR1005-0402	POC1731CT-ND	POC1731CT-ND	Panasonic ECG	ECJ-4E01C104Z
2	C4, C36	100nF	Capacitor	CR1005-0402	POC100C0CT-ND	POC100C0CT-ND	Panasonic ECG	ECJ-4E01H100D
3	C11, C15, C16	10uF	Capacitor	CR1008-0603	POC2367T-ND	POC2367T-ND	Panasonic ECG	ECJ-1V80G106M
4	C10, C42, C43, C44	33pF	Capacitor	GR1003-0201	POC2118T-ND	POC2118T-ND	Panasonic ECG	ECJ-2EC1E330J
4	C8, C9, C21, C22	10nF	Capacitor	GR1003-0201	POC103B0CT-ND	POC103B0CT-ND	Panasonic ECG	ECJ-4EB1C103K
1	C28	10uF/20V	Polarized Capacitor (Radial)	CG3216-1206	511-1452-1-ND	511-1452-2-ND	Rohm	TC40A476M8R
1	Y1	47uF/6.3V	Polarized Capacitor (Radial)	CG3216-1206	POC2415CT-ND	POC2415CT-ND	Panasonic ECG	ECJ-3YF1E106Z
1	P2	ABM1B-26.000MHZ	ABM1B	ABM1B	300-3219-1-ND	300-3219-2-ND	Analog Corporation	ABM1B-26.000MHZ-10-1U-T
1	J1	DIN8 connector	Heisler, 5-Pin	KLB1 SMD	CP1-3515S1CT-ND	CP1-3515S1CT-ND	CUI Inc.	SJ1-3515-SMT
1	L1	22uH	Inductor	MINI DIN8	CP-2280-ND	CP-2280-ND	CUI	MD-465M
1	L2	22uH	Inductor	CR4532-1812	480-2506-1-ND	480-2506-2-ND	Murata	LOH32M20L23L
1	J4	LD9006PT33R	500mA, Very Low Drop (0.45V) Voltage Regulator	CR1005-0402	POC1280CT-ND	POC1280CT-ND	Panasonic ECG	ELJ-8F22NLF
1	D1	Blue Led	Typical BLUE SMD LED	SC1008-0603	487-4846-1-ND	487-4846-2-ND	STMicroelectronics	LD2608PT33R
1	U11	SST39WF1601	Blue Led	854638-448	160-1650-1-ND	160-1650-2-ND	LITE ON INC	LT57-5270T8KT
1	P1	1.27mm, 3x2 header for gpio	Header, 3-Pin, Dual row	MHDP203	NA	NA	SST	SST39WF1601
1	R12	0	Resistor	CR1005-0402	PO10CT-ND	PO10CT-ND	Panasonic ECG	ERJ-2GE5R00X
1	R5	10K	Resistor	CR1005-0402	PR0KCT-ND	PR0KCT-ND	Panasonic ECG	ERJ-2GEJ100X
2	R10, R11	22K	Resistor	CR1005-0402	PR2KCT-ND	PR2KCT-ND	Panasonic ECG	ERJ-2GEJ220X
2	R13, R15	22K	Resistor	CR1005-0402	PR2KCT-ND	PR2KCT-ND	Panasonic ECG	ERJ-2GEJ220X
2	R3, R23	470	Resistor	CR1003-0201	P22KCT-ND	P22KCT-ND	Panasonic ECG	ERJ-1GEJ220X
2	R7, R8	1K	Resistor	CR1005-0402	P470CT-ND	P470CT-ND	Panasonic ECG	ERJ-2GEJ471X
3	R1, R4, R14	2	Resistor	CR1005-0402	P10KCT-ND	P10KCT-ND	Panasonic ECG	ERJ-2GEJ102A
8	R2, R6, R24	47K	Resistor	CR1005-0402	P47KCT-ND	P47KCT-ND	Panasonic ECG	ERJ-2GEJ470X
1	R6, R16, R17, R18, R19, R20, R21, R22	22k/1%	Resistor	CR1003-0201	P2210ABCT-ND	P2210ABCT-ND	Panasonic ECG	ERJ-1GEF2202C
1	D2	SMCJ16A	TVS-Diodes	SMC	SMCJ16ALFCT-ND	SMCJ16ALFCT-ND	Unifuse Inc	SMCJ16A