

Bill of Materials								
Boston University Electronics Design Facility								
http://edf.bu.edu/								
LIDAR PCB								
Item	Quantity	Reference	Description	Manufacturer	Manufacturer Part No.	Supplier	Supplier Part No.	Unit Price
1	1	R1	4k	Panasonic - ECG	ERJ-3EKF4021V	Digi-Key	P4.02KHCT-ND	0.04
2	1	R2	3.3k	Panasonic - ECG	ERJ-3EKF3301V	Digi-Key	P3.3KHCT-ND	0.04
3	1	R3	192	Panasonic - ECG	ERJ-3EKF1910V	Digi-Key	P191HCT-ND	0.04
4	1	R4	750	Panasonic - ECG	ERJ-3EKF7500V	Digi-Key	P750HCT-ND	0.04
5	1	R5,R12	50	Panasonic - ECG	ERJ-3EKF49R9V	Digi-Key	P49.9HCT-ND	0.04
6	1	R6*	TBD			EDF Stock		
7	1	R7*	TBD			EDF Stock		
8	1	R8*	TBD			EDF Stock		
9	1	R9*	TBD			EDF Stock		
10	1	R10	1k	Panasonic - ECG	ERJ-3EKF1001V	Digi-Key	P1.00KHCT-ND	0.04
11	1	R11	100	Panasonic - ECG	ERJ-3EKF1000V	Digi-Key	P100HCT-ND	0.04
12	3	C1, C6, C11	100pF	TDK Corporation	C1608C0G1H101J	Digi-Key	445-1281-1-ND	0.022
13	5	C2, C4, C5, C7, C12	0.1uF	Murata Electronics North America	GRM188F51H104ZA01D	Digi-Key	490-1568-1-ND	0.027
14	2	C8, C13	6.8uF	TDK Corporation	C2012X5R1E685M	Digi-Key	445-5983-1-ND	0.8
15	1	C9	1uF	Murata Electronics North America	GRM188F51E105ZA12D	Digi-Key	490-3895-1-ND	0.068
16	1	C10	.01uF	Murata Electronics North America	GRM188R71H103KA01D	Digi-Key	490-1512-1-ND	0.06
17	1	C14*	TBD			EDF Stock		
18	1	D1	Photodiode	G8376-05				
19	1	D2*	Schottky Diode	Comchip Technology	CDBU00340	Digi-Key	641-1006-1-ND	0.4
20	1	U1	OPA847	Texas Instruments	OPA847ID	Digi-Key	296-15171-5-ND	6.72
21	1	U2	THS3201	Texas Instruments	THS3201D	Digi-Key	296-15216-5-ND	6.38
22	3	Pins for D1	Pin Receptacles	Mill-max	8579-0-15-15-11-27-10-0	Digi-Key	ED90329-ND	0.343
23	1	J1	4 pin male			EDF Stock		
24	1	J2	6 pins male	Mill-max	851-93-050-30-001000	Digi-Key	ED1150-ND	14.56
25	1	J3	6 pins female	Mill-max	850-10-050-30-001000	Digi-Key	ED1050-ND	13.08
26	1	J5	SMA connector	TE Connectivity	221789-1	Digi-Key	A24691-ND	8.9
27	3		Male-Female Threaded Hex			McMaster	93505A515	
28	3		Screw			McMaster	91249A046	
29	3		Nut			McMaster	91841A003	
							Total	51.64
Starred items part of dynamic range circuit never populated								