

Bill of Materials

LIGO Project

Broadband Photodetector

Revision 8

Project: **BBPD.PriPCB**
 Author: **Matthew Evans**

Number of boards	40
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Quantity	Distributor	Part Number	Comment	Description	Designator	Footprint	Assembly Type	Quantity to Order
4	Coilcraft	1812CS-103XJL	10uH	Inductor	L2, L3, L7, L8	CL4523-1812_2013-080		168
5	Coilcraft	1812PS-103KL	10uH	Inductor	L20, L21, L22, L30, L31	CL4523-1812_LONG		210
1	Digi-Key	26-61-5030	Header 3H	Header, 3-Pin, Right Angle	P1	Molex_156_RA_3	TH	41
1	Digi-Key	478-5552-1-ND	1n	Capacitor, surface mount	C20b	CC3216-1206		50
1	Digi-Key	490-3542-1-ND	100n	Capacitor, surface mount	C20a	CC3216-1206		50
1	Digi-Key	5005K-ND	RED	PCB Testpoint	TP3	TP	TH	41
1	Digi-Key	5006K-ND	BLACK	PCB Testpoint	TP2	TP	TH	41
1	Digi-Key	5009K-ND	YELLOW	PCB Testpoint	TP1	TP	TH	41
1	Digi-Key	5122K-ND	BLUE	PCB Testpoint	TP4	TP	TH	41
1	Digi-Key	67-1321-ND	Stacked LED	Dual Green LED	D1	my LUMEX Dual LED	TH	41
1	Digi-Key	A32261-ND	BNC	BNC, PCB Mount, Right Angle	J1	BNC1	TH	41
1	Digi-Key	J569-ND	SMA	SMA Connector, Right Angle	J2	MY_SMA4	TH	41
1	Digi-Key	OP27GSZ-ND	OP27GS	Low-Noise, Precision Operational Amplifier	U3	SO-8_N		45
1	Digi-Key	P0.0ECT-ND	0	Resistor, surface mount	R20	CR3216-1206		50
1	Digi-Key	RG20P100BCT-ND	100	Resistor, surface mount	R10	CR2012-0805		50
1	Digi-Key	RMCP2010FT150RCT-ND	150	Resistor, surface mount	R22	CR5025-2010		50
1	Digi-Key	RPC2010JT680RCT-ND	680	Resistor, surface mount	R21	CR5025-2010		50
2	Digi-Key	478-1701-1-ND	10UF Tantalum, 35V	Polarized Cap	C32, C33	7343-31		90
2	Digi-Key	P1.0KECT-ND	1k	Resistor, surface mount	R30, R31	CR3216-1206		90
2	Digi-Key	RG20P1.0KBCT-ND	1k	Resistor, surface mount	R11, R12	CR2012-0805		90
2	Digi-Key	RG20P2.0KBCT-ND	2k	Resistor, surface mount	R9, R13	CR2012-0805		90
3	Digi-Key	478-5162-1-ND	1n	Capacitor, surface mount	C9, C13, C22	CC2013-0805		130
3	Digi-Key	490-1664-1-ND	10n	Capacitor, surface mount	C4, C5, C6	CC2013-0805		130
3	Digi-Key	490-1774-1-ND	10n	Capacitor, surface mount	C2a, C3a, C7	CC3216-1206		130
6	Digi-Key	478-1395-1-ND	100n	Capacitor, surface mount	C21, C23, C24, C30, C31, C34	CC2013-0805		260
9	DNS	DNS	DNS, Mounting Hole	Capacitor, surface mount, Inductor, Mounting Hole, Testpoint	C1a, C1b, C2b, C3b, C14, C35, H1, L1, TP5	CC2013-0805, CC3216-	Graphical, TH	380
1	Mini-Circuits	GALI-6+	GALI-6+		U2	GALI-6F		45
1	Mini-Circuits	MAR-6SM+	MAR-6SM+		U1	MAR6-SM		45
4	None	None	Serial Number, Standoff	Mounting Hole	H2, H3, H4, SN	LIGO SERIAL NUMBER	Graphical	168
1	Perkin Elmer	FFD-100H	2mm photodiode	Photodiode	PD1	PD TO-5	TH	41
63	Total pieces							

Summary per Board	
Total # of unique parts	30
SMT Placements per board	41
Thru-Hole placement per board	9
Fine pitch placement per board	0
BGA placement per board	0
Mechanical placement per board	0