

## SolBrdG2

Components		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
649-68000-408HLF	1x8 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10	\$0.00	\$0.00	100
571-6404544	1x4 pin 100 mil header (shrouded)	\$0.12	1	\$0.12	10	\$0.10	\$0.10	100
538-35317-0620	2x3 pin 4.2mm Molex header	\$0.16	1	\$0.16	10	\$0.15	\$0.15	100
512-FQP13N06L	FQP13N06L MOSFET	\$0.67	4	\$2.67	10	\$0.43	\$1.72	100
603-CFR-12JR-5210K	10K Resistor	\$0.02	4	\$0.08	100	\$0.02	\$0.08	100
		Comp Cost = (incl. Tax)		\$3.22		Comp Cost = (incl. Tax)		\$2.18
<b>Connectors</b>								
538-22-01-2047	1x4 100 mil housing	\$0.13	1	\$0.13	10	\$0.11	\$0.11	100
538-08-50-0136	100 mil terminals	\$0.06	4	\$0.25	100	\$0.06	\$0.25	100
538-39-01-2065	2x3 pin 4.2mm Molex housing	\$0.52	1	\$0.52	10	\$0.45	\$0.45	100
538-39-00-0039	4.2 mm Molex terminals	\$0.14	6	\$0.81	10	\$0.10	\$0.60	100
		Comp Cost = (incl. Tax)		\$1.82		Comp Cost = (incl. Tax)		\$1.50
		<b>Wing Cost =</b>		\$5.04		<b>Wing Cost =</b>		\$3.68

InputOnly

<b>Components</b>		Note: This does not require a board but is simply a connector soldered to the PSoC 4200 board.						
		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
571-6404548	1x8 pin 100 mil header (shrouded)	\$0.27	1	\$0.27	10	\$0.23	\$0.23	100
		Comp Cost = (incl. Tax)		\$0.29		Comp Cost = (incl. Tax)		\$0.25
<b>Connectors</b>								
538-22-01-2087	1x8 100 mil housing	\$0.24	1	\$0.24	10	\$0.22	\$0.22	100
538-08-50-0136	100 mil terminals	\$0.06	8	\$0.50	100	\$0.06	\$0.50	100
		Comp Cost = (incl. Tax)		\$0.79		Comp Cost = (incl. Tax)		\$0.76
		<b>Wing Cost =</b>		\$1.07		<b>Wing Cost =</b>		\$1.01

## IncandBrdG2

<b>Components</b>		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
649-68000-408HLF	1x8 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10	\$0.00	\$0.00	100
571-6404548	1x8 pin 100 mil header (shrouded)	\$0.27	1	\$0.27	10	\$0.23	\$0.23	100
512-2N7000TA	60V, 200mA N Channel MOSFET	\$0.09	8	\$0.75	100	\$0.09	\$0.75	100
603-CFR-12JR-5210K	10K Resistor	\$0.02	8	\$0.15	100	\$0.02	\$0.15	100
538-39-28-1023	2x1 pin 4.2mm Molex header	\$0.12	1	\$0.12	10	\$0.10	\$0.10	100
		Comp Cost = (incl. Tax)		\$1.37		Comp Cost = (incl. Tax)	\$1.31	
<b>Connectors</b>								
538-22-01-2087	1x8 100 mil housing	\$0.24	1	\$0.24	10	\$0.22	\$0.22	100
538-08-50-0136	100 mil terminals	\$0.06	8	\$0.50	100	\$0.06	\$0.50	100
538-39-01-2025	2x1 pin 4.2mm Molex housing	\$0.33	1	\$0.33	10	\$0.28	\$0.28	100
538-39-00-0039	4.2 mm Molex terminals	\$0.14	2	\$0.27	10	\$0.10	\$0.20	100
		Comp Cost = (incl. Tax)		\$1.42		Comp Cost = (incl. Tax)	\$1.27	
		<b>Wing Cost =</b>		\$2.79		<b>Wing Cost =</b>	\$2.59	

## InpBrdG2

Components		Low Quantity			
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty
649-68000-408HLF	1x8 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10
571-6404546	1x6 pin 100 mil header (shrouded)	\$0.20	1	\$0.20	10
571-6404544	1x4 pin 100 mil header (shrouded)	\$0.12	1	\$0.12	10
603-CFR-25JR-52470R	470 Ohm Resistor	\$0.01	3	\$0.04	100
		Comp Cost = (incl. Tax)		\$0.39	
<b>Connectors</b>					
538-22-01-2067	1x6 100 mil housing	\$0.18	1	\$0.18	10
538-22-01-2047	1x4 100 mil housing	\$0.13	1	\$0.13	10
538-08-52-0123	100 mil terminals	\$0.12	10	\$1.20	100
		Comp Cost = (incl. Tax)		\$1.61	
		<b>Wing Cost =</b>		\$2.00	

## IntfBrdG2

Components		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
649-68000-404HLF	1x4 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10	\$0.00	\$0.00	100
649-68000-403HLF	1x3 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	87	\$0.00	\$0.00	174
571-6404544	1x4 pin 100 mil header (shrouded)	\$0.12	1	\$0.12	10	\$0.10	\$0.10	100
603-CFR-25JR-52470R	470 Ohm Resistor	\$0.01	2	\$0.03	100	\$0.01	\$0.03	100
855-M20-9980446	2x4 pin 100 mil header	\$0.20	3	\$0.61	10	\$0.18	\$0.53	100
SX1100-B	100 mil shunt	\$0.02	3	\$0.07	25	\$0.02	\$0.07	25
749-9908-312	Standoffs for mounting	\$0.04	4	\$0.14	100	\$0.04	\$0.14	100
	1x40 pin 100 mil header (Bought in bulk)	\$0.50	1	\$0.50	10	\$0.30	\$0.30	100
		Comp Cost = (incl. Tax)		\$1.56		Comp Cost = (incl. Tax)		\$1.24
<b>Connectors</b>								
	2x4 Ribbon crimp connector (FC-8P) (Bought in bulk)	\$0.20	2	\$0.40	100	\$0.20	\$0.40	100
538-08-50-0136	100 mil terminals (extras for bad crimps)	\$0.06	5	\$0.31	100	\$0.06	\$0.31	100
538-39-00-0039	4.2 mm Molex terminals (extras for bad crimps)	\$0.14	3	\$0.41	10	\$0.10	\$0.30	100
		Comp Cost = (incl. Tax)		\$1.18		Comp Cost = (incl. Tax)		\$1.07
		<b>Wing Cost =</b>		\$2.75		<b>Wing Cost =</b>		\$2.31

IncandSMG2Low

Components		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
649-68000-408HLF	1x8 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10	\$0.00	\$0.00	100
571-6404548	1x8 pin 100 mil header (shrouded)	\$0.27	1	\$0.27	10	\$0.23	\$0.23	100
771-2N7002P-215	60V, 300mA N Channel SOT23 MOSFET	\$0.04	8	\$0.34	100	\$0.04	\$0.34	100
538-39-28-1023	2x1 pin 4.2mm Molex header	\$0.12	1	\$0.12	10	\$0.10	\$0.10	100
		Comp Cost = (incl. Tax)		\$0.78		Comp Cost = (incl. Tax)		\$0.72
<b>Connectors</b>								
538-22-01-2087	1x8 100 mil housing	\$0.24	1	\$0.24	10	\$0.22	\$0.22	100
538-08-50-0136	100 mil terminals	\$0.06	8	\$0.50	100	\$0.06	\$0.50	100
538-39-01-2025	2x1 pin 4.2mm Molex housing	\$0.33	1	\$0.33	10	\$0.28	\$0.28	100
538-39-00-0039	4.2 mm Molex terminals	\$0.14	2	\$0.27	10	\$0.10	\$0.20	100
		Comp Cost = (incl. Tax)		\$1.42		Comp Cost = (incl. Tax)		\$1.27
		<b>Wing Cost =</b>		\$2.20		<b>Wing Cost =</b>		\$1.99

## IncandSMG2Hi

<b>Components</b>		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
649-68000-408HLF	1x8 pin 100 mil header (replaced by 1x40 on intf)	\$0.00	1	\$0.00	10	\$0.00	\$0.00	100
571-6404548	1x8 pin 100 mil header (shrouded)	\$0.27	1	\$0.27	10	\$0.23	\$0.23	100
771-2N7002P-215	60V, 300mA N Channel SOT23 MOSFET	\$0.04	16	\$0.69	100	\$0.04	\$0.69	100
603-RC0805FR-0733KL	33K Resistor SM 0805	\$0.01	8	\$0.05	100	\$0.01	\$0.05	100
538-39-28-1023	2x1 pin 4.2mm Molex header	\$0.12	1	\$0.12	10	\$0.10	\$0.10	100
		Comp Cost = (incl. Tax)		\$1.20		Comp Cost = (incl. Tax)		\$1.13
<b>Connectors</b>								
538-22-01-2047	1x8 100 mil housing	\$0.24	1	\$0.24	10	\$0.22	\$0.22	100
538-08-52-0123	100 mil terminals	\$0.06	8	\$0.50	100	\$0.06	\$0.50	100
538-39-01-2025	2x1 pin 4.2mm Molex housing	\$0.33	1	\$0.33	10	\$0.28	\$0.28	100
538-39-00-0039	4.2 mm Molex terminals	\$0.14	2	\$0.27	10	\$0.10	\$0.20	100
		Comp Cost = (incl. Tax)		\$1.42		Comp Cost = (incl. Tax)		\$1.27
		<b>Wing Cost =</b>		\$2.61		<b>Wing Cost =</b>		\$2.41

PerMachine

Components		Low Quantity				High Quantity		
Mouser Part#		Low Qty Price	Qty	Ext. Price	Quoted Qty	High Qty Price	Ext. High Qty Price	High Qty
538-22-01-2047	1x4 100 mil housing	\$0.13	2	\$0.27	10	\$0.11	\$0.22	100
538-08-50-0136	100 mil terminals	\$0.06	8	\$0.50	100	\$0.06	\$0.50	100
523-191-2801-116FT	Ribbon Cable/split for 10'	\$0.77	5	\$3.85	1	\$0.43	\$2.15	100
		Total Cost = (incl. Tax)		\$4.90		Comp Cost = (incl. Tax)		\$3.04



## PartsListGen

Board Type	Num Brds		
Num Sol Brds = 0			
Num Input Only = 0			
Incand TH Brds = 0			
Intf Brds = 0			
Incand SM (Low) Brds = 0			
Incand SM (High) Brds = 0			
Num Machines = 0			
Components	Description	Price	Ext. Price
Mouser Part#			
571-6404544	1x4 pin 100 mil header (shrouded)	\$0.12	\$0.00
538-35317-0620	2x3 pin 4.2mm Molex header	\$0.16	\$0.00
512-FQP13N06L	FQP13N06L MOSFET	\$0.67	\$0.00
603-CFR-12JR-5210K	10K Resistor	\$0.02	\$0.00
571-6404548	1x8 pin 100 mil header (shrouded)	\$0.27	\$0.00
512-2N7000TA	60V, 200mA N Channel MOSFET	\$0.09	\$0.00
538-39-28-1023	2x1 pin 4.2mm Molex header	\$0.12	\$0.00
603-CFR-25JR-52470R	470 Ohm Resistor	\$0.01	\$0.00
855-M20-9980446	2x4 pin 100 mil header	\$0.20	\$0.00
SX1100-B	100 mil shunt	\$0.02	\$0.00
749-9908-312	Standoffs for mounting	\$0.04	\$0.00
	1x40 pin 100 mil header (Bought in bulk)	\$0.50	\$0.00
771-2N7002P-215	60V, 300mA N Channel SOT23 MOSFET	\$0.04	\$0.00
603-RC0805FR-0733KL	33K Resistor SM 0805	\$0.01	\$0.00
538-39-28-1023	2x1 pin 4.2mm Molex header	\$0.12	\$0.00
727-CY8CKIT-049-42XX	Cypress PSOC 4200	\$3.98	\$0.00
		Est. Cost =	\$0.00
Connectors	Description		
538-22-01-2047	1x4 100 mil housing	\$0.13	\$0.00
538-08-50-0136	100 mil terminals	\$0.06	\$0.00
538-39-01-2065	2x3 pin 4.2mm Molex housing	\$0.52	\$0.00

PartsListGen

538-39-00-0039	4.2 mm Molex terminals	\$0.14	\$0.00
538-22-01-2087	1x8 100 mil housing	\$0.24	\$0.00
538-39-01-2025	2x1 pin 4.2mm Molex housing	\$0.33	\$0.00
	2x4 Ribbon crimp connector (FC-8P) (Bought in bulk)	\$0.20	\$0.00
523-191-2801-116FT	Ribbon Cable/split for 10'	\$0.77	\$0.00
		Est. Cost =	\$0.00

### SS3 Board Cost

Board Name	Comp Cost	Conn Cost	Qty	Ext. Cost	No Conn
Solenoid Boards	\$3.22	\$1.82	3	\$15.12	\$9.66
Input Only Boards	\$0.29	\$0.79	4	\$4.29	\$1.15
Incandescent Boards	\$1.37	\$1.42	0	\$0.00	\$0.00
Incandescent SM Low	\$0.78	\$1.42	0	\$0.00	\$0.00
Incandescent SM Hi	\$1.20	\$1.42	6	\$15.68	\$7.17
Interface Boards	\$1.56	\$1.18	4	\$10.99	\$6.25
PSoC 4200 Boards	\$4.25	\$0.00	4	\$17.00	\$17.00
Per Machine	\$4.90	\$0.00	1	\$4.90	\$4.90
Mouser Shipping	\$5.00	\$0.00	1	\$5.00	\$5.00
Board Cost	\$20.00	\$0.00	1	\$20.00	\$20.00
Total Cost				\$92.98	\$71.13

Sultan Board Cost

Board Name	Comp Cost	Conn Cost	Qty	Ext. Cost	No Conn
Solenoid Boards	\$3.22	\$1.82	5	\$25.20	\$16.11
Input Only Boards	\$0.29	\$0.79	5	\$5.36	\$1.43
Incandescent Boards	\$1.37	\$1.42	0	\$0.00	\$0.00
Incandescent SM Low	\$0.78	\$1.42	8	\$17.58	\$6.23
Incandescent SM Hi	\$1.20	\$1.42	0	\$0.00	\$0.00
Interface Boards	\$1.56	\$1.18	5	\$13.73	\$7.81
PSoC 4200 Boards	\$4.25	\$0.00	5	\$21.25	\$21.25
Per Machine	\$4.90	\$0.00	1	\$4.90	\$4.90
Mouser Shipping	\$5.00	\$0.00	1	\$5.00	\$5.00
Board Cost	\$20.00	\$0.00	0	\$0.00	\$0.00
Total Cost				\$93.02	\$62.73

Kickstarter

	Solenoid Wing		Intf Wing		Incand Wing		IncandSM Wing (Low Side)		Input Hdr Connectors		Extra Boards		Num Machines		Total	Handling/ Added Shipping	Total	Paid	PSOC 4200 Cost
Name	Num	Price	Num	Price	Num	Price	Num	Price	Num	Price	Num	Price	Num	Price		10.00%			
RO	12	\$44.12	16	\$36.96	24	\$62.04	0	\$0.00	28	\$28.29	0	\$0.00	3	\$9.13	\$180.54	\$18.05	\$198.59		\$64.00
PP	12	\$44.12	12	\$27.72	16	\$41.36	0	\$0.00	20	\$20.21	20	\$15.00	2	\$6.09	\$154.49	\$15.45	\$169.94		\$48.00
KB	30	\$110.29	21	\$48.51	9	\$23.27	0	\$0.00	24	\$24.25	40	\$30.00	4	\$12.17	\$248.48	\$24.85	\$273.33		\$84.00
JW	9	\$33.09	6	\$13.86	8	\$20.68	0	\$0.00	7	\$7.07	3	\$2.25	1	\$3.04	\$79.99	\$8.00	\$87.99	x, x	\$24.00
JF	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
MC1	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
BM	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
MH	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
WS	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	no	\$24.00
EL	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
SS	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
JG	9	\$33.09	9	\$20.79	0	\$0.00	2	\$3.98	25	\$25.26	0	\$0.00	2	\$6.09	\$89.20	\$8.92	\$98.12	x, x	\$36.00
JR	18	\$66.17	18	\$41.58	24	\$62.04	0	\$0.00	30	\$30.31	40	\$30.00	3	\$9.13	\$239.23	\$23.92	\$263.16	x, x	\$72.00
MP	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
TM	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
AH	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
JJ	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
BB	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
AG	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
MI	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x	\$24.00
JK	12	\$44.12	6	\$13.86	2	\$5.17	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$76.29	\$7.63	\$83.92	x, x	\$24.00
BL	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
SB	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72	x, x	\$24.00
MC2	6	\$22.06	6	\$13.86	8	\$20.68	0	\$0.00	10	\$10.10	0	\$0.00	1	\$3.04	\$69.74	\$6.97	\$76.72		\$24.00
New	5	\$18.38	5	\$11.55	8	\$20.68	0	\$0.00	5	\$5.05	0	\$0.00	1	\$3.04	\$58.71	\$5.87	\$64.58		\$20.00
	204		190		219		2						Total =		\$2,253.89		\$2,479.28		\$760.00