

Variant: 001  
Generated: 7/17/2024 2:37 PM  
TID #: N/A



## IPP018 REV C Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		IPP018	Any	Printed Circuit Board	
2	C1	1	10uF	8.85012E+11	Würth Elektronik	CAP, CERM, 10 uF, 10 V, +/- 10%, X7R, 0805	805
3	C2, C3, C4, C9, C10	5	0.1uF	8.85012E+11	Würth Elektronik	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	603
4	C5	1	1000pF	8.85012E+11	Würth Elektronik	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	603
5	C6	1	0.47uF	GCM188R71C474KA55D	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
6	C7, C8	2	12pF	CL05C120JB5NNNC	Samsung Electro-Mechanics	CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
7	D1	1	Green	LTST-C190KGKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
8	J1	1		FTSH-105-01-F-D-K	Samtec	Header, 1.27 mm, 5x2, Gold, TH	Header, 1.27 mm, 5x2, TH
9	J2	1		FTR-110-03-G-D-LC-06	Samtec		HDR19
10	J3, J4, J6, J9, J10, J11, J15	7		TSW-112-07-G-S	Samtec	Header, 100mil, 12x1, Gold, TH	12x1 Header
11	J5, J7, J16, J17	4		TSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	3x1 Header
12	J8	1		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
13	J12	1		TSW-105-07-G-D	Samtec	Header, 100mil, 5x2, Gold, TH	5x2 Header
14	J13, J14	2		TSW-104-07-G-D	Samtec	Header, 100mil, 4x2, Gold, TH	4x2 Header
15	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
16	R1, R9, R13, R14	4	47k	CRCW040247K0JNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
17	R6, R7, R10	3	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
18	R8	1	2.00Meg	CRCW04022M00FKED	Vishay-Dale	RES, 2.00 M, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
19	R11	1	330	CRCW0402330RJNED	Vishay-Dale	RES, 330, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
20	R12	1	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	402
21	SH-J1, SH-J2, SH-J3, SH-J4, SH-J5	5	1x2	SPC02SYAN	Sullins Connector Solutions	Shunt, 100mil, Flash Gold, Black	Closed Top 100mil Shunt
22	U1	1		TPD6E004RSER	Texas Instruments	Low-Capacitance 6-Channel +/-15 kV ESD Protection Array for High-Speed Data Interfaces, RSE0008A (UQFN-8)	RSE0008A
23	U2	1		MSPM0G1107SRGZ	Texas Instruments	Mixed-Signal Microcontrollers	VQFN48
24	U3	1		TS3A5223RSWR	Texas Instruments	0.5Ω Dual SPDT Bidirectional Analog Switch, RSW0010A (UQFN-10)	RSW0010A
25	U4	1		PCA9538PWR	Texas Instruments	Remote 8-Bit I2C and SMBus Low-Power I/O Expander With Interrupt Output, Reset, and Config Registers, PW0016A (TSSOP-16)	PW0016A
26	Y1	1		FC-135 32.7680KA-AG0	Epson	Crystal, 32.768 KHz, 20 ppm, 7 pF, SMD	SMD, 2-Leads, Body 3.2x1.5mm
27	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
28	R2, R3	0	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402