Assembly Bill of Materials

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Project Name:	TIPD211
Project File:	TIPD211.PrjPcb
Base ID:	TIPD211
Schematic Rev:	E1
Assembly Variant:	001
Build Quantity:	1
Generated:	11/18/2016 10:30:40 AM

Item	Designator	Description	RoHS	Manufacturer	PartNumber	Quantity	Required	Supplier 1	Supplier Part Number 1
1	!PCB1	Printed Circuit Board	0	Any	TIPD211	1	1	Supplier	Supplier Fait Number 1
2	@H1, @H2, @H3, @H4	Standoff, Hex, 0.5"L #4-40 Nylon	Y	Keystone	1902C	4	4	Digi-Key	1902CK-ND
3	C1A, C1B, C1C, C1D, C7A, C7B, C7C, C7D, C9A, C9B, C9C, C9D	CAP CER 10000PF 100V 5% C0G 0805	Y	TDK	C2012NP02A103J125AA	12	12	Digi-key	445-15407-1-ND
4	C2A, C2B, C2C, C2D, C3A, C3B, C3C, C3D, C10A, C10B, C10C, C10D, C11A, C11B, C11C, C11D, C15A, C15B, C15C, C15D, C74, C76	CAP CER 1UF 25V 10% X7R 0603	Υ	Murata	GRM188R71E105KA12D	22	22	Digikey	490-5307-1-ND
5	C4A, C4B, C4C, C4D, C5A, C5B, C5C, C5D	CAP, CERM, 1000 pF, 50 V, +/- 1%, C0G/NP0, 0603	Y	MuRata	GRM1885C1H102FA01J	8	8	Digi-Key	490-6377-1-ND
6	C6A, C6B, C6C, C6D, C16A, C16B, C16C, C16D, C17A, C17B, C17C, C17D	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0603	Υ	MuRata	GRM188R71E104KA01D	12	12	Digi-Key	490-1524-1-ND
7	C12A, C12B, C12C, C12D	CAP, CERM, 22 µF, 10 V, +/- 20%, X7S, 0805	Υ	TDK	C2012X7S1A226M125AC	4	4	Digi-Key	445-14560-1-ND
8	C13A, C13B, C13C, C13D, C18A, C18B, C18C, C18D	CAP, CERM, 10 µF, 16 V, +/- 10%, X7R, 0805_140	Υ	Samsung	CL21B106KOQNNNE	8	8	Digi-Key	1276-2872-1-ND
9	C73	CAP, CERM, 10uF, 35V, +/-10%, X7R, 1210	Υ	MuRata	GRM32ER7YA106KA12L	1	1	Digi-Key	490-5314-1-ND
10	C75	CAP, CERM, 10 µF, 16 V, +/- 10%, X7R, 1206_190	Y	TDK	C3216X7R1C106K160AC	1	1	Digi-Key	445-4042-1-ND
11	C78	CAP CER 10UF 16V 10% X7R 1206		Manufacturer Samsung Electro-		1	1	Digi-key	445-4042-1-ND
12	C79, C81, C84	CAP CER 10UF 16V 10% X7R 0805	Y	Mechanics	CL21B106KOQNNNE	3	3	Digi-Key	1276-2872-1-ND
13	C80	CAP, CERM, 1 μF, 16 V, +/- 10%, X7R, 0805 CAP, CERM, 0.1μF, 50V, +/-10%, C0G/NP0, 0402	Y Y	Taiyo Yuden TDK	EMK212B7105KG-T	1	1 4	Digi-Key	587-1283-1-ND
14 15	C82, C83, C85, C86 D1	Diode, Zener, 27V, 500mW, SOD-123	Y	Vishay-Semiconductor	C1005X7R1H104K MMSZ4711-V	1	1	Digi-Key Newark	445-5932-1-ND 69R4782
16	FID4, FID5, FID6	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	3	3		
17	H1, H2, H3, H4	ROUND STANDOFF M3 STEEL 5MM	Y	Wurth Elektronik	9774050360R	4	4	Digi-Key	732-5272-1-ND
18	J1A, J1B, J1C, J1D, J2A, J2B, J2C, J2D, J11, J13	Header, Male 2-pin, 100mil spacing,	Y	Sullins	PEC02SAAN	10	10	Digi-Key	S1012E-02-ND
19	J9	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	Υ	On-Shore Technology	ED555/2DS	1	1	Digi-Key	ED1514-ND
20	J10, J12	CONN HEADER 60POS 0.5MM SMT	Υ	Samtec	QTH-030-01-F-D-A	2	2	Digi-key	QTH-030-01-F-D-A-ND
21	P1A, P1B, P1C, P1D, P2A, P2B, P2C, P2D	SMA Straight PCB Socket Die Cast, 50 Ohm, TH	Υ	TE Connectivity	5-1814832-1	8	8	Digi-Key	A97594-ND
22	R1A, R1B, R1C, R1D	RES 100 OHM 1/10W 5% 0603 SMD	Υ	Panasonic		4	4	Digi-key	P100GCT-ND
23	R2A, R2B, R2C, R2D, R3A, R3B, R3C, R3D, R4A, R4B, R4C, R4D, R5A, R5B, R5C, R5D	RES 1K OHM 1/10W .1% 0603 SMD	Υ	Panasonic	ERA-3AEB102V '	16	16	Digi-key	P1.0KDBCT-ND
24	R6A, R6B, R6C, R6D, R7A, R7B,	RES, 2.2, 5%, 0.1 W, 0603	Υ	Vishay-Dale	CRCW06032R20JNEA	8	8	Digi-Key	541-2.2GCT-ND
25	R7C, R7D R8A, R8B, R8C, R8D, R67	RES 1K OHM 1/10W 1% 0603 SMD	Y	Panasonic	ERJ-3EKF1001V	5	5	Digi-key	P1.00KHCT-ND
26	R9A, R9C, R9D, R10B, R11A, R11B, R11C, R11D, R63, R66, R69, R70, R71, R72, R132	RES, 0, 5%, 0.1 W, 0603	Y	Vishay-Dale, Vishay-Dale, Vishay-Dale, Vishay-Dale, Vishay-Dale, Vishay-Dale, Vishay-Dale, Vishay-Dale, Panasonic, Panasonic, Vishay-Dale, Vishay-Dale, Panasonic	CRCW06030000Z0EA	15	15	Digi-Key	541-0.0GCT-ND
27	R9B, R10A, R10C, R10D	RES, 1.00, 1%, 0.1 W, 0603	Υ	Yageo America	RC0603FR-071RL	4	4	Digi-Key	311-1.00HRCT-ND
28	R12A, R12B, R12C, R12D	RES, 30 k, 5%, 0.125 W, 0805	Υ	Panasonic	ERJ-6GEYJ303V	4	4	Digi-Key	P30KACT-ND
30	R13A, R13B, R13C, R13D R14A, R14B, R14C, R14D, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R100, R101, R102, R103, R104, R105, R105, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119	RES, 10.0 k, 1%, 0.1 W, 0603 RES, 33, 5%, 0.1 W, 0603	Y	Vishay-Dale Vishay-Dale	CRCW060310K0FKEA CRCW060333R0JNEA	44	44	Digi-Key Digi-Key	541-10.0KHCT-ND
31	R57, R59	RES, 0.1, 1%, 0.1 W, 0603	Y	Panasonic	ERJ-3RSFR10V	2	2	Digi-Key	P.10AJCT-ND
32 33	R58, R60, R68, R95 R73, R74, R98, R99	RES 0.0 OHM 1/10W JUMP 0603 SMD RES, 10.0 k, 1%, 0.1 W, 0402	Y Y	Panasonic Panasonic	ERJ-2RKF1002X	4	4	Digi-key Digi-Key	P0.0GCT-ND P10.0KLCT-ND
34	R96, R97, R120, R121	RES, 10.0k ohm, 1%, 0.063W, 0402	Ý	Vishay-Dale	CRCW040210K0FKED	4	4	Digi-Key	541-10.0KLCT-ND
35	U1A, U1B, U1C, U1D	High-Bandwidth, High-Precision, Low THD+N, 16-Bit and 18- Bit Analog-to-Digital Converter (ADC) Driver, DGS0010A	Υ	Texas Instruments	OPA2625IDGSR	4	4	Digi-Key	OPA2625IDGSR-ND
36	U2A, U2B, U2C, U2D	Precision, Low Noise, Low Iq Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DCK0005A), Green (RoHS & no Sb/Br)	Υ	Texas Instruments	OPA376AIDCKR	4	4	Digi-Key	296-35916-2-ND
37	U3A, U3B, U3C, U3D	16/18/20-Bit, 1-MSPS SAR ADC with Integrated Reference Buffer, LDO, and Enhanced Serial Interface, RGE0024H	Υ	Texas Instruments	ADS89xxBRGER	4	4		
38	U13	Linear Voltage Regulator IC Positive Adjustable 1 Output 1.4 V ~ 20.5 V 1A 20-VQFN (5x5)	Y	ΤI	TPS7A4700RGWR	1	1	Digi-Key	296-39503-1-ND
39	U14	Low-Noise, Very Low Drift, Precision Voltage Reference, DGK0008A	Υ	Texas Instruments	REF5050IDGK	1	1		
40	U15, U16	I2C-Compatiable (2-wire) Serial EEPROM 512-Kbit (65,536 x 8), TSSOP-8	Υ	Atmel	AT24C32D-XHM-T	2	2	Digi-Key	AT24C32D-XHM-TTR-ND
41	C8A, C8B, C8C, C8D	CAP CER 10000PF 100V 5% C0G 0805	Υ	TDK		0	0	Digi-key	445-15407-1-ND
42	C14A, C14B, C14C, C14D	CAP, CERM, 10 µF, 16 V, +/- 10%, X7R, 0805_140	Ý	Samsung	CL21B106KOQNNNE	0	0	Digi-Key	1276-2872-1-ND
43	C77	CAP CER 10UF 16V 10% X7R 0805	Υ	Samsung Electro- Mechanics	CL21B106KOQNNNE	0	0	Digi-Key	1276-2872-1-ND
44	FID1, FID2, FID3 R61, R62, R64, R65, R122, R123,	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	0	0		
45	R124, R125, R126, R127, R128, R129, R130, R131, R133, R134, R135, R136, R137, R138, R139, R140, R141	RES, 0, 5%, 0.1 W, 0603	Υ	Panasonic	ERJ-3GEY0R00V	0	0	Digi-Key	P0.0GCT-ND

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