

LTM4676 - DC2086 Rev.1 Parts List01-29-2014																				
Additional Notes: Workmanship to be per ANSI/IPC-A-610, Latest Rev. Class 2. Contact Sean McNally For The ANSI/IPC-A-610 Spec.																				
Additional Notes: Rows Marked In "RED" DO NOT INSTALL!																				
Additional Notes: Ensure There Are Not Any Solder Splashes To Any Exposed Vias.																				
Additional Notes: Wash The Boards And Remove Any Debris Before Delivering The Engineer.																				
Additional Notes: Test Engineer Is: Nick Vergunst																				
Additional Notes: Board Designer Is: Sean McNally																				
Additional Notes: Initial Kit Quantity: 5																				
Additional Notes: All ECW Inserts Are Bottom Mount Unless Otherwise Specified By The Test Engineer And The Board Designer. Install The Male Pins On The DUT(s) Side!																				
Additional Notes: Place Yellow Kapton Tape Over The Entire Johnstech Socket Surfaces Before Assembly Begins!																				
Additional Notes: ALL Component Substitutions MUST BE Approved By The Test Engineer!																				
Additional Notes: Carefully Review The Comments And Special Instructions Column (E) Related To Specific Component Requirements!																				
Additional Notes: Ensure The GND And All Supply Nodes Are Shorted Together On Catalyst Test Boards Prior To Assembly To Avoid ESD Damage To Active Components!																				
B.O.M. Rev: 9X-S -> The B.O.M. Rev Is Updated Upon Component Value Changes Or Minor Rework And Without Board Respin!																				
Item	Value	Quantity	Reference	Comments / Special Instructions	Description	Digikey Part Number	Qty In House	Price Each	Single Board Cost	Project Cost (250 Boards)	Manufacturer	Manufacturer Part Number	Alternate Vendor	Alternate Vendor Part Number	Alternate Vendor Price	Tolerance	PCB Footprint	Part Type	Check Datasheet	Datasheet
1	2200pF ±10% 50V	2	C1,C3	-	CAP CER 2200PF 50V 10% X7R 0402	399-3068-1-ND	Look In House 1st	\$0.03	\$0.06	\$15.00	Kemet	C0402C222K5RACTU	N/A	N/A	\$0.00	±10%	0402_1005	0402_1005	Yes	C0402C222K5RACTU.pdf
2	DNI	2	C2,C4	-	N/A	N/A	Do Not Install!	\$0	\$0.00	\$0.00	N/A	N/A	N/A	N/A	\$0.00	N/A	0402_1005	0402_1005	Yes	N/A.pdf
3	0.022µF ±10% 50V	2	C100,C101	-	CAP CER 0.022UF 50V 10% X7R 0402	399-7780-1-ND	Look In House 1st	\$0.27	\$0.54	\$135.00	Kemet	C0402C223K5RACTU	N/A	N/A	\$0.00	±10%	0402_1005	0402_1005	Yes	C0402C223K5RACTU.pdf
4	0.1µF ±10% 50V	17	C102,C103,C106,C303,C304,C405,C406,C417,C418,C419,C420,C503,C504,C600,C601,C602,C603	-	CAP CER 0.1UF 50V 10% X7R 0805	311-1140-1-ND	Reel Available In House!	\$0.05	\$0.85	\$212.50	Yageo	CC0805KRX7R9BB104	N/A	N/A	\$0.00	±10%	0805_2012	0805_2012	Yes	CC0805KRX7R9BB104.pdf
5	0.1µF ±10% 25V	1	C104	-	CAP CER 10UF 25V X5R 0402	587-1456-1-ND	Reel Available In House!	\$0.16	\$0.16	\$40.00	Taiyo Yuden	TMK105B1104KV-F	N/A	N/A	\$0.00	±10%	0402_1005	0402_1005	Yes	TMK105B1104KV-F.pdf
6	4.7µF ±20%, 25V	3	C105,C200,C202	-	CAP CER 4.7UF 25V 10% X5R 0805	587-1782-1-ND	Look In House 1st	\$0.24	\$0.72	\$180.00	Taiyo Yuden	TMK212B1475KG-T	N/A	N/A	\$0.00	±20%	0805_2012	0805_2012	Yes	TMK212B1475KG-T.pdf
7	680µF ±20% 20V	3	C107,C203,C204	-	CAP ALUM 680UF 20V 20% RADIAL	565-3623-ND	N/A	\$3.28	\$9.84	\$2460.00	United Chemi-Con	APSG200ELL681MJB55	N/A	N/A	\$0.00	±20%	APSG200ELL681MJB55	APSG200ELL681MJB55	Yes	APSG200ELL681MJB55.pdf
8	0.22µF ±10% 50V	1	C201	-	CAP CER 0.22UF 50V 10% X7R 0805	478-5164-1-ND	N/A	\$0.10	\$0.10	\$25.00	AVX Corporation	08055C224KAT2A	N/A	N/A	\$0.00	±10%	0805_2012	0805_2012	Yes	08055C224KAT2A.pdf
9	47µF ±20% 25V	8	C205,C206,C400,C401,C407,C408,C412,C507	-	CAP CER 47UF 25V 20% X7R 2220	399-5801-1-ND	N/A	\$5.60	\$44.80	\$11200.00	Kemet	C220C476M3R2CAUT07186	N/A	N/A	\$0.00	±20%	2220_COMBO	2220_COMBO	Yes	C220C476M3R2CAUT07186.pdf
10	0.01µF ±5%, 50V	1	C207	-	CAP CER 10000PF 50V 5% NP0 0805	445-6947-1-ND	Look In House 1st	\$0.32	\$0.32	\$80.00	TDK	CGA4C2COG1H103J060AA	N/A	N/A	\$0.00	±5%	0805_2012	0805_2012	Yes	CGA4C2COG1H103J060AA.pdf
11	0.033µF ±5% 25V	1	C208	-	CAP CER 0.033UF 25V 5% X7R 0603	399-9068-1-ND	Look In House 1st	\$0.34	\$0.34	\$85.00	Kemet	C0603C333J3RACTU	N/A	N/A	\$0.00	±5%	0603_1608	0603_1608	Yes	C0603C333J3RACTU.pdf
12	0.022µF ±10% 25V	4	C300,C301,C500,C501	-	CAP CER 0.022UF 25V 10% X7R 0402	399-7779-1-ND	Look In House 1st	\$0.27	\$1.08	\$270.00	Kemet	C0402C223K3RACTU	N/A	N/A	\$0.00	±10%	0402_1005	0402_1005	Yes	C0402C223K3RACTU.pdf
13	0.1µF ±10% 25V	2	C302,C502	-	CAP CER 10UF 25V X5R 0402	587-1456-1-ND	Reel Available In House!	\$0.16	\$0.32	\$80.00	Taiyo Yuden	TMK105B1104KV-F	N/A	N/A	\$0.00	±10%	0402_1005	0402_1005	Yes	TMK105B1104KV-F.pdf
14	100µF ±20% 12.5V	1	C305	-	CAP ALUM 100UF 12.5V 20% SMD	399-5295-1-ND	N/A	\$4.14	\$4.14	\$1035.00	Kemet	A700X107M12RATED15	N/A	N/A	\$0.00	±20%	7343	7343	Yes	A700X107M12RATED15.pdf
15	0.1µF ±10% 50V	1	C306	-	CAP CER 0.1UF 50V 10% X7R 0805	311-1140-1-ND	Reel Available In House!	\$0.05	\$0.05	\$12.50	Yageo	CC0805KRX7R9BB104	N/A	N/A	\$0.00	±10%	0805_2012	0805_2012	Yes	CC0805KRX7R9BB104.pdf
16	2.2µF ±10% 16V	1	C402	-	CAP CER 2.2UF 16V X7R 0805	490-3906-1-ND	Look In House 1st	\$0.45	\$0.45	\$112.50	Murata	GRM21BR71C225KA12L	N/A	N/A	\$0.00	±10%	0805_2012	0805_2012	Yes	GRM21BR71C225KA12L.pdf
17	0.1µF	2	C403,C404	-	CAP CER 0.1UF 50V 10% X7R 0805	311-1140-1-ND	Reel Available In House!	\$0.05	\$0.10	\$25.00	Yageo	CC0805KRX7R9BB104	N/A	N/A	\$0.00	±10%	0805_2012	0805_2012	Yes	CC0805KRX7R9BB104.pdf
18	22pF ±5% 50V	2	C409,C410	-	CAP CER 22PF 50V 5% NP0 0805	311-1103-1-ND	Look In House 1st	\$0.06	\$0.12	\$31.00	Yageo	CC0805JRNPO9BN220	N/A	N/A	\$0.00	±5%	0805_2012	0805_2012	Yes	CC0805JRNPO9BN220.pdf
19	2.2µF ±10% 16V	1	C411	-	CAP CER 2.2UF 16V X7R 0805	490-3906-1-ND	Look In House 1st	\$0.45	\$0.45	\$112.50	Murata	GRM21BR71C225KA12L	N/A	N/A	\$0.00	±10%	0805_2012	0805_2012	Yes	GRM21BR71C225KA12L.pdf
20	47µF ±20% 10V	1	C413	-	CAP CER 47UF 10V 20% X5R 0805	N/A	N/A	\$1.00	\$1.00	\$250.00	TDK	C2012X5R1A476M125AC	www.mouser.com	810-C2012X5R1A476M	\$1.00	±20%	2220_COMBO	2220_COMBO	Yes	C2012X5R1A476M125AC.pdf
21	1.0µF ±10% 25V	3	C414,C415,C416	-	CAP CER 1.0UF 25V X7R 0805	587-1281-1-ND	Reel Available In House!	\$0.30	\$0.90	\$225.00	Taiyo Yuden	TMK212B7105KG-T	N/A	N/A	\$0.00	±10%	0805_2012	0805_2012	Yes	TMK212B7105KG-T.pdf
22	0.1µF ±5% 50V	1	C505	-	CAP 10UF 50V CERAMIC X7R 0805	399-1171-1-ND	Reel Available In House!	\$0.33	\$0.33	\$82.50	Kemet	C0805C104J5RACTU	N/A	N/A	\$0.00	±5%	0805_2012	0805_2012	Yes	C0805C104J5RACTU.pdf
23	100µF ±20% 12.5V	1	C506	-	CAP ALUM 100UF 12.5V 20% SMD	399-5295-1-ND	N/A	\$4.14	\$4.14	\$1035.00	Kemet	A700X107M12RATED15	N/A	N/A	\$0.00	±20%	7343	7343	Yes	A700X107M12RATED15.pdf
24	SMAJ18A-13-F	1	D100	-	TVS UNIDIRECT 400W 18V SMA	SMAJ18A-FDICT-ND	N/A	\$0.70	\$0.70	\$175.00	Diodes Inc	SMAJ18A-13-F	N/A	N/A	\$0.00	N/A	DO-214AC	DO-214AC	Yes	SMAJ18A-13-F.pdf
25	PDS835L-13	1	D200	-	DIODE SCHOTTKY 35V 8A POWERSIS	PDS835LQICT-ND	N/A	\$1.44	\$1.44	\$360.00	Diodes Inc	PDS835L-13	N/A	N/A	\$0.00	N/A	PDS835L-13	PDS835L-13	Yes	PDS835L-13.pdf
26	PMEG6010ER	1	D201	-	Schottky Diodes & Rectifiers SCHOTTKY RECT 60V 10A	N/A	N/A	\$0.33	\$0.33	\$82.50	NXP Semiconductors	PMEG6010ER,115	www.mouser.com	771-PMEG6010ER,115	\$0.33	N/A	PMEG6010ER	PMEG6010ER	Yes	PMEG6010ER,115.pdf
27	163-179PH-EX	1	J100	-	DC Power Connectors PCB 2.1MM	N/A	N/A	\$1.04	\$1.04	\$260.00	Kobicon	163-179PH-EX	www.mouser.com	163-179PH-EX	\$1.04	N/A	163-179PH-EX	163-179PH-EX	Yes	163-179PH-EX.pdf
28	2 PIN TERMINAL BLOCK	1	J101	-	Series 102 - 5.00mm Horiz. Entry Modular - 1.5mm² Wires WR-TBL	732-2028-ND	N/A	\$1.52	\$1.52	\$380.00	Würth Electronics	691102710002	Würth Electronics	691102710002	\$0.00	N/A	1935161	1935161	Yes	691102710002.pdf
29	692622030100	1	J102	-	CONN RCPT US MICRO B 3.0 R/A	732-3151-1-ND	N/A	\$3.58	\$3.58	\$895.00	Würth Electronics Inc	692622030100	Würth Electronics	692622030100	\$0.00	N/A	ZX360D-B-10P	ZX360D-B-10P	Yes	692622030100.pdf
30	98464-G61-14ULF	2	J600,J601	-	CONN HEADER 14POS 2MM R/A DL PCB	609-2839-ND	N/A	\$1.69	\$3.38	\$845.00	FCI	98464-G61-14ULF	N/A	N/A	\$0.00	N/A	98464-G61-14ULF	98464-G61-14ULF	Yes	98464-G61-14ULF.pdf
31	DF3-4P-2DS(01)	1	J602	-	CONN HEADER 4POS 2MM R/A GOLD	H3909-ND	Look In House First!	\$0.87	\$0.87	\$217.50	Hirose Electric Co Ltd	DF3-4P-2DS(01)	N/A	N/A	\$0.00	N/A	DF3-4P-2DS	DF3-4P-2DS	Yes	DF3-4P-2DS(01).pdf
32	DF3-4P-2DS(01)	1	J603	-	CONN HEADER 4POS 2MM R/A GOLD	H3909-ND	Look In House First!	\$0.87	\$0.87	\$217.50	Hirose Electric Co Ltd	DF3-4P-2DS(01)	N/A	N/A	\$0.00	N/A	DF3-4P-2DS	DF3-4P-2DS	Yes	DF3-4P-2DS(01).pdf
33	98464-G61-12LF	2	J604,J605	-	CONN HEADER 12POS 2MM R/A DL PCB	609-2551-ND	N/A	\$2.66	\$5.32	\$1330.00	FCI	98464-G61-12LF	N/A	N/A	\$0.00	N/A	98464-G61-12LF	98464-G61-12LF	Yes	98464-G61-12LF.pdf
34	150060B8575000	1	LED1	-	WL-SMVCW SMD mono-color chip LED waterclear	N/A	N/A	\$0.00	\$0.00	\$0.00	Würth Electronics	WSL2512R0240FEB	http://www.we-online.de/web/en/wuerth_elektronik/start.php	150060B8575000	\$0.00	N/A	LG_L29K-G2J1-24-Z	LG_L29K-G2J1-24-Z	Yes	150060B8575000.pdf
35	4.9µH	1	L200	-	INDUCTOR POWER 4.9UH 6.5A SMD	732-1161-1-ND	N/A	\$3.69	\$3.69	\$922.50	Würth Electronics Inc	744314490	N/A	N/A	\$0.00	±20%	744314490	744314490	Yes	744314490.pdf
36	1.5µH	1	L400	-	INDUCTOR POWER 1.5UH 13A SMD	732-1158-1-ND	N/A	\$3.69	\$3.69	\$922.50	Würth Electronics Inc	744314150	N/A	N/A	\$0.00	±20%	744314490	744314490	Yes	744314150.pdf
37	1.0µH	1	L401	-	INDUCTOR WW 1UH 10A SMD	732-3349-1-ND	N/A	\$2.80	\$2.80	\$700.00	Würth Electronics Inc	74437349010	N/A	N/A	\$0.00	±20%	74437349010	74437349010	Yes	74437349010.pdf
38	0	4	R100,R402,R405,R410	-	RES 0.0 OHM 1/10W 0402 SMD	P0-0KCT-ND	Reel Available In House!	\$0.05	\$0.20	\$50.00	Panasonic	ERJ-2GE0R00X	N/A	N/A	\$0.00	N/A	Jumper	0402_1005	Yes	ERJ-2GE0R00X.pdf
39	0	1	R101	-	RES 0.0 OHM 1/10W 0402 SMD	P0-0KCT-ND	Reel Available In House!	\$0.05	\$0.05	\$12.50	Panasonic	ERJ-2GE0R00X	N/A	N/A	\$0.00	±1%	0402_1005	0402_1005	Yes	ERJ-2GE0R00X.pdf
40	0.024	3	R102,R302,R502	-	Current Sense Resistors - SMD 1watt .024ohms 1%	N/A	N/A	\$1.03	\$3.09	\$772.50	Vishay/Dale	WSL2512R0240FEB	www.mouser.com	71-WSL2512-0.024-E3	\$1.03	±1%	2512_6432	2512_6432	Yes	WSL2512R0240FEB.pdf
41	78.7K	1	R103	-	RES 78.7K OHM 1/10W 1% 0402 SMD	P78-7KCT-ND	Look In House 1st	\$0.06	\$0.06	\$15.00	Panasonic	ERJ-2RFK7872X	N/A</							