

DLPC1438/DLPA2005 REFERENCE DESIGN Revised: Thursday, May 12, 2022																
Revision: A.1																
Item	Qty	RefDes	Install	Part#	Value	Voltage	Type	TOLERANCE	Package	Unit Cost	Min Qty	Manufacturer	DigiKey	DigiReel	Index PN	
1	1	C1	Y	CL21A475KAQNNNE	4.7uF	25V	capacitor	10%		805		Samsung	1276-1244-1-ND		1400	
2	1	C2	Y	C1005X7R1E102K	1000pF	25V	capacitor			402		TDK	445-4924-1-ND		956	
3	13	C3,C77,C87,C89,C90,C91,C93,C94,C105,C223,C225,C230,C234	Y	UMK105BJ104KV-F	100nF	50V	capacitor	10%		402		Taiyo Yuden	587-3499-1-ND		1280	
4	12	C4,C5,C6,C8,C9,C53,C54,C70,C71,C72,C73,C74	Y	C2012X5R1V106M085AC	10uF	35V	capacitor	20%		805		TDK	445-14419-1-ND		1288	
5	62	C7,C18,C26,C27,C29,C36,C40,C45,C49,C55,C58,C95,C101,C108,C112,C113,C114,C115,C116,C117,C119,C120,C121,C125,C127,C128,C129,C131,C132,C133,C134,C135,C136,C137,C138,C139,C140,C141,C142,C143,C144,C145,C146,C147,C148,C149,C150,C151,C152,C153,C154,C155,C156,C157,C167,C170,C171,C213,C215,C228,C238,C239	Y	CL05B104KO5NNNC	100nF	16V	capacitor	10%			402		Samsung	1276-1001-1-ND		681
6	3	C10,C196,C210	Y	C1608X5R1A106M080AC	10uF	10V	capacitor	20%		603		TDK	445-6853-1-ND		1207	
7	3	C11,C12,C163	Y	GCM155R71C683KA55D	68nF	16V	capacitor			402		Murata	490-12655-1-ND		1805	
8	6	C13,C14,C15,C122,C123,C124	Y	TMK105BJ104KV-F	100nF	25V	capacitor			402		Taiyo Yuden	587-1456-1-ND		922	
9	10	C16,C17,C24,C46,C50,C65,C126,C200,C201,C214	Y	CL05A105KA5NQNC	1uF	25V	capacitor	10%		402		Samsung	1276-1445-1-ND		916	
10	5	C19,C25,C85,C103,C104	Y	GRM188C81E475KE11D	4.7uF	25V	capacitor	10%		603		Murata	490-7199-1-ND		1382	
11	4	C20,C102,C197,C198	Y	C1005X5R1E224K050BC	220nF	25V	capacitor	10%		402		TDK	445-5944-1-ND		1173	
12	13	C21,C22,C32,C33,C34,C35,C37,C38,C39,C168,C169,C216,C218	Y	C1608X5R1A226M080AC	22uF	10V	capacitor	20%		603		TDK	445-9077-1-ND		1203	
13	1	C23	Y	GRM32EC70J107ME15L	100uF	6.3V	capacitor	20%		1210		Murata	490-10530-1-ND		1636	
14	2	C28,C110	Y	CL05A475KP5NRNC	4.7uF	10V	capacitor	10%		402		Samsung	1276-1480-1-ND		1073	
15	4	C30,C31,C211,C212	Y	C1608X5R0J226M	22uF	6.3V	capacitor	20%		603		TDK	445-8028-1-ND		1171	
16	1	C41	Y	GRM1555C1H120FA01D	12pF	50V	capacitor	5%		402		Murata	490-6196-1-ND		726	
17	1	C42	Y	APXE100ARA470ME61G	47uF	10V	capacitor	20%	NPCAP_PXE_E61_5p3x5p3			United Chemi-Con	565-3197-1-ND		1272	
18	3	C43,C47,C56	Y	CL21A475KBQNNNE	4.7uF	50V	capacitor	10%		805		Samsung	1276-1248-1-ND		1591	
19	3	C44,C48,C57	Y	GRM155R6YA224KE01D	220nF	35V	capacitor	10%		402		Murata	490-10460-1-ND		1283	
20	1	C51	Y	04025C101KAT2A	100pF	50V	capacitor	10%		402		AVX	478-1089-1-ND		1220	
21	5	C52,C69,C84,C224,C229	Y	CL10A105KB8NNNC	1uF	50V	capacitor	10%		603		Samsung	1276-1860-1-ND		1566	
22	1	C59	Y	GCM1555C1H4R7CA16D	4.7pF	50V	capacitor			402		Murata	490-12652-1-ND		1848	
23	3	C60,C68,C233	Y	CL05B223KB5VPNC	22nF	50V	capacitor			402		Samsung	1276-6664-1-ND		1829	
24	1	C61	Y	04025A100JAT2A	10pF	50V	capacitor	5%		402		AVX	478-1070-1-ND		1062	
25	4	C62,C63,C80,C81	Y	CGA2B2X7R1H102M050BE	1nF	50V	capacitor	20%		402		TDK	445-173850-1-ND		1633	
26	1	C64	Y	C1005C0G1H180J	18pF	50V	capacitor	5%		402		TDK	445-1238-1-ND		960	
27	1	C66	Y	CL10B821KB8NNNC	820pF	50V	capacitor			603		Samsung	1276-2117-1-ND		1824	
28	4	C67,C82,C83,C96	Y	EEE-FT1V101AP	100uF	35V	capacitor	20%	sizeD_260x260mil_radial_can			Panasonic	PCE5016CT-ND		1821	
29	9	C75,C76,C92,C97,C98,C100,C231,C235,C236	Y	GMK325BJ226MM-P	22uF	35V	capacitor	20%		1210		Taiyo Yuden			1621	
30	1	C78	Y	CL10C241JB8NNNC	240pF	50V	capacitor			603		AMD	1276-2243-1-ND		1825	
31	1	C79	Y	CL05B333KO5NNNC	33nF	16V	capacitor			402		Samsung	1276-1177-1-ND		1808	
32	1	C86	Y	UMK105BJ224KV-F	220nF	50V	capacitor	10%		402		Taiyo Yuden	587-3500-1-ND		1590	
33	2	C88,C232	Y	C1005X5R1V225K050BC	2.2uF	35V	capacitor	10%		402		TDK	445-9028-1-ND		1281	
34	1	C99	Y	C3225X7S1H106K250AE	10uF	50V	capacitor	10%		1210		TDK	445-8914-1-ND		1601	
35	1	C106	Y	GJM1555C1H6R8CB01D	6.8pF	50V	capacitor			402		Murata	490-3106-1-ND		1830	
36	1	C107	Y	C0402C681K5RACTU	680pF	50V	capacitor	10%		402		Kemet	399-1027-1-ND		1584	
37	1	C109	Y	C1608X5R0J106M080AB	10uF	6.3V	capacitor	20%		603		TDK	445-4112-1-ND		906	
38	2	C111,C240	DNI	CL05B104KO5NNNC	100nF	16V	capacitor	10%		402		Samsung	1276-1001-1-ND		681	
39	1	C118	Y	C1608X7R1E224K	220nF	25V	capacitor	10%		603		TDK	445-5191-1-ND		913	
40	2	C130,C217	Y	CC0402KRX7R7BB103	10nF	16V	capacitor	10%		402		Yageo	311-1042-1-ND		908	
41	40	C158,C159,C160,C161,C162,C164,C165,C166,C172,C173,C174,C175,C176,C177,C178,C179,C180,C181,C182,C183,C184,C185,C186,C187,C188,C189,C190,C191,C192,C193,C194,C195,C202,C203,C204,C205,C206,C207,C208,C209	Y	GRM033R60J104KE19D	100nF	6.3V	capacitor				201		Murata	490-3167-1-ND		921

42	1	C199	Y	C1005X5R0J225K050BC	2.2uF	6.3V	capacitor	10%		402		TDK	445-6847-1-ND	915
43	4	C219,C220,C221,C222	DNI	EMK105B7223KV-F	22nF	16V	capacitor	10%		402		Taiyo Yuden	587-1224-1-ND	1116
44	1	C226	Y	CL05C750JB5NNNC	75pF	50V	capacitor			402		Samsung	1276-1723-1-ND	1826
45	1	C227	Y	C0402C112J5GAC7867	1100pF	50V	capacitor			402		Kemet	399-9948-1-ND	1831
46	1	C237	Y	O6033C104KAT4A	100nF	25V	capacitor	10%		603		AVX	478-7018-1-ND	234
47	5	D1,D2,D3,D4,D5	Y	SML-LX1206GC-TR	green		diode,led			1206		Lumex	67-1357-1-ND	31
48	2	D6,D9	Y	SML-LX1206USBC-TR	blue		diode,led			1206		Lumex	67-1701-1-ND	1250
49	1	D7	Y	SML-LX1206IC-TR	red		diode,led			1206		Lumex	67-1356-1-ND	32
50	3	D8,D12,D17	Y	LTST-C190GKT	Green		diode,led		LED-LTST-C190_LITEON			Liteon	160-1183-1-ND	1451
51	1	D10	Y	MBRB4030T4G	MBRB4030T4G		diode		ONSEMI_D2PAK			ON Semiconductor	MBRB4030T4GOSCT-ND	1614
52	1	D11	Y	VS-50WQ10FNTRL-M3	VS-50WQ10FNTRL-M3	100V/5.5A	diode,schottky		VS_DPAK_TO-252AA			Vishay	VS-50WQ10FNTRL-M3GICT-ND	1823
53	2	D13,D15	Y	BZX84C8V2LT1G	BZX84C8V2LT1G	8.2V	diode,zener		ONSEMI_SOT23-3_CASE318_STYLE8			ON Semiconductor	BZX84C8V2LT1GOSCT-ND	1396
54	1	D14	Y	B560C-13-F	B560C-13-F	60V/5A	diode,schottky		SMC			Diodes Incorporated	B560C-FDICT-ND	1814
55	1	D16	Y	LMV431AIMFX/NOPB	LMV431		reference		SOT23-3_DBZ003A			Texas Instruments	LMV431AIMFX/NOPBCT-ND	1533
56	1	D18	Y	PMEG4002EL.315	PMEG4002EL	40V	diode,schottky		SOD882			NXP Semiconductors	568-4131-1-ND	907
57	1	FB1	Y	35F0121-1SR-10	35F0121-1SR-10	10A	ferrite bead		Laird_35F0121-1S				240-2521-1-ND	1827
58	1	F1	DNI	MMZ1608S121A	MMZ1608S121A	500mA	ferrite bead			603		TDK	445-2173-1-ND	1141
59	2	F2,F3	Y	BLM15PD800SN1D	BLM15PD800SN1D	1500mA	ferrite bead			402		Murata	490-5202-1-ND	999
60	1	JPWR1	Y	39301060	HDR,6P,2R		header		Molex_5569_HDR3X2			Molex	WM1353-ND	1384
61	1	JPWR2	Y	PJ-082BH	PJ-082BH		connector		CUI_PJ-082BH			CUI Stack	CP-082BHCT-ND	1369
62	4	J1,J3,J5,J11	Y	61201021621	HDR,10P,2R,SHROUDED		header		Tyco_5103308-1			Wurth	732-2094-ND	979
63	1	J2	Y	TSW-107-07-G-S	HDR,7P,1R		header		HDR7P_1R_100MIL			Samtec	SAM1029-07-ND	1105
64	5	J4,J6,J7,J10,J12	Y	TSW-105-07-G-S	HDR,5P,1R		header		HDR5P_1R_100MIL			Samsung	SAM1029-05-ND	1189
65	1	J8	Y	AXT550124	AXT550124		connector		Panasonic_AXT550124_counter_clkwise_pinout			Panasonic	255-2408-1-ND	1235
66	1	J9	Y	TSW-109-07-G-S	HDR,9P,1R		header		HDR9P_1R			Samtec		721
67	4	J13,J15,J17,J20	Y	M20-9990245	HDR,2P,1R		header		HDR2P_1R			Harwin	952-2261-ND	180
68	1	J14	Y	S4B-EH(LF)(SN)	S4B-EH		header		JST_S4B-EH			JST	455-1627-ND	1245
69	2	J16,J25	Y	B2B-EH-A(LF)(SN)	B2B-EH		header		JST_B2B-EH			JST	455-1611-ND	1297
70	1	J18	Y	B3B-ZR-SM4-TF(LF)(SN)(P)	B3B-ZR		header		JST_B3B-ZR-SM4-TF_LF_SN_P			JST	455-1682-1-ND	898
71	2	J19,J24	Y	5034801200	5034801200		connector		Molex_5034801200			Molex	WM1441CT-ND	1780
72	6	J21,J22,J26,J27,J30,J31	Y	M20-9990845	HDR,8P,1R		header		HDR8P_1R_100MIL			Harwin	952-2000-ND	679
73	1	J23	Y	B12B-ZR(LF)(SN)	B12B-ZR(LF)(SN)		header		HDR1X12-B12B-ZR_JST			JST	455-1667-ND	1512
74	1	J28	Y	B3B-EH-A(LF)(SN)	B3B-EH		header		JST_B3B-EH			JST	455-1612-ND	1291
75	1	J29	Y	S4B-EH(LF)(SN)	S4B-EH(LF)(SN)		connector		CONN4-S4B-EH_JST			JST	455-1627-ND	1005
76	1	L1	Y	CBL2012T100M	10uH		inductor			805		Taiyo Yuden	587-1632-1-ND	901
77	1	L2	Y	DR74-2R2-R	2.2uH	4.76A	inductor		CooperBussmann_DR74			Cooper Bussmann	513-1140-1-ND	1249
78	2	L3,L12	Y	LQM2HPN2R2MG0L	2.2uH		inductor		1008_2p5mmx2mm			Murata	490-5114-1-ND	1149
79	2	L4,L5	Y	SRU1038-3R5Y	3.5uH	5.5A	inductor		Bourns_SRU_1038			Bourns	---	1845
80	1	L6	Y	XAL5030-472MEB	4.7uH	5.9A	inductor		Coilcraft_XAL5030			Coilcraft		1841
81	1	L7	Y	DR1040-5R2-R	5.2uH	5.4A	inductor		Eaton_DR1040			Eaton	513-1396-1-ND	1849
82	1	L8	Y	XAL7030-562MEB	5.6uH	7.3A	inductor	20%	Coilcraft_XAL70300			Coilcraft	---	1807
83	2	L9,L11	Y	BLM15PX121SN1D	BLM15PX121SN1D	2000mA	ferrite bead			402		Murata	490-9656-1-ND	1670
84	1	L10	Y	SRP5030T-5R6M	5.6uH	4.25A	inductor		Bourns_SRP5030T			Bourns	SRP5030T-5R6MCT-ND	1822
85	2	M1,M2	DNI	---	MH100-150GND		hole,plated		MH100-150GND			-- NOT A PART --	---	1834
86	1	Q1	Y	IPD50P04P4L11ATMA1	IPD50P04P4L11ATMA1	40V,50A	mosfet,p-ch		PG-TO252-3-313			Infineon	IPD50P04P4L11ATMA1CT-ND	1696
87	1	Q2	Y	CSD18543Q3A	CSD18543Q3A	60V	mosfet,n-ch		NexFET_8SON_3X3MM			Texas Instruments	296-47321-1-ND	1786
88	1	Q3	Y	ZVN4106FTA	ZVN4106FTA	60V	fet		SOT23-3_BSS138L			Diodes Incorporated	ZVN4106FCT-ND	1587
89	1	Q4	Y	CSD13383F4	CSD13383F4		mosfet,n-ch		3-PICOSTAR_3-XFDFN			Texas Instruments	296-39991-1-ND	1715
90	1	Q5	Y	RK7002BMT116	RK7002BMT116	60V	mosfet,n-ch		SOT23-3_ROHM_SST3			Rohm	RK7002BMT116CT-ND	628
91	1	Q6	Y	NDT456P	NDT456P	30V,7.5A	mosfet,p-ch		SOT-223-4			ON Semiconductor	NDT456PCT-ND	1785
92	1	RT1	Y	NCP15WF104F03RC	100k		thermistor	1%		402		Murata	490-4803-1-ND	910
93	8	R1,R2,R3,R4,R5,R7,R113,R120	Y	ERJ-2RKF1000X		100	1/16W	resistor	1%	402		Panasonic	P100LCT-ND	690
94	1	R6	Y	ERJ-2RKF1500X		150	1/16W	resistor		402		Panasonic	P150LCT-ND	707
95	2	R8,R162	Y	ERJ-2RKF2000X		200	1/16W	resistor	1%	402		Panasonic	P200LCT-ND	1735
96	24	R9,R17,R19,R21,R22,R46,R47,R85,R87,R103,R104,R110,R127,R139,R149,R168,R174,R176,R177,R178,R179,R183,R184,R188	Y	CRCW0402100KFKED	100k		1/16W	resistor	1%	402		Vishay/Dale	541-100KLCT-ND	712
97	46	R10,R11,R12,R13,R14,R15,R79,R80,R84,R90,R92,R97,R101,R108,R116,R119,R130,R132,R133,R140,R141,R142,R143,R145,R146,R160,R163,R164,R165,R166,R167,R170,R186,R187,R190,R194,R196,R197,R204,R205,R208,R210,R214,R215,R216,R217	Y	RC0402FR-0710KL	10k		1/16W	resistor	1%	402		Yageo	311-10.0KLRCT-ND	680
98	22	R16,R68,R69,R82,R105,R115,R121,R134,R147,R153,R154,R156,R157,R161,R171,R181,R192,R203,R206,R207,R209,R211	Y	ERJ-2GE0R00X		0	1/16W	resistor		402		Panasonic	P0.0JCT-ND	687

99	19	R18,R20,R43,R72,R74,R75,R76,R77,R81,R83,R86,R88,R89,R91,R135,R172,R173,R180,R185	Y	RC0402FR-0730R1L		30.1	1/16W	resistor	1%	402		Yageo	YAG3111CT-ND	976
100	33	R23,R24,R25,R26,R27,R28,R29,R30,R31,R32,R33,R34,R35,R36,R37,R38,R39,R40,R41,R48,R49,R50,R51,R57,R58,R59,R61,R62,R63,R64,R65,R66,R67	Y	ERJ-1GNF56R0C		56		resistor	1%	201		Panasonic	P123082CT-ND	1843
101	2	R42,R52	Y	ERJ-2RKF7871X	7.87k		1/10W	resistor	1%	402		Panasonic	P7.87KLCT-ND	1175
102	2	R44,R45	Y	ERJ-1GEJ430C		43		resistor	5%	201		Panasonic	P43AGCT-ND	1167
103	7	R53,R54,R55,R73,R117,R195,R198	Y	ERA-2AEB332X	3.3k		1/16W	resistor	1%	402		Panasonic	P3.3KDCCT-ND	1436
104	1	R56	Y	ERJ-2RKF9763X	976k			resistor	1%	402		Panasonic	P976KLCT-ND	1842
105	3	R60,R70,R71	Y	CRCW040249R9FKEDC		49.9	1/16W	resistor		402		Vishay	541-3967-1-ND	1797
106	1	R78	Y	RMCF0402FT1M05	1.05M		1/16W	resistor	1%	402		Stackpole Electronics	RMCF0402FT1M05CT-ND	1803
107	2	R93,R212	Y	ERJ-2RKF7872X	78.7k		1/10W	resistor	1%	402		Panasonic	P78.7KLCT-ND	1087
108	1	R94	Y	UCR03EWPF5R039	39m		1/4W	resistor	1%	603		Rohm	RHM1271CT-ND	254
109	1	R95	Y	ERJ-2RKF2212X	22.1k		1/10W	resistor	1%	402		Panasonic	P22.1KLCT-ND	1076
110	1	R96	Y	ERJ-2RKF2700X		270	1/16W	resistor	1%	402		Panasonic	P270LCT-ND	972
111	1	R98	Y	ERJ-2RKF1243X	124k		1/16W	resistor		402		Panasonic	P124KLCT-ND	1847
112	1	R99	Y	ERJ-2RKF1022X	10.2k			resistor	1%	402		Panasonic	P10.2KLCT-ND	1266
113	1	R100	Y	RC0402FR-0753K6L	53.6k		1/16W	resistor	1%	402		Yageo	311-53.6KLRCT-ND	1265
114	1	R102	Y	MCR01MZPF4993	499k		1/16W	resistor	1%	402		Rohm	RHM499KLCT-ND	925
115	4	R106,R123,R126,R136	Y	RC0402FR-071KL	1k		1/16W	resistor	1%	402		Yageo	311-1.00KLRCT-ND	684
116	2	R107,R124	Y	ERJ-6DQFR91V	910m		1/2W	resistor	0.50%	805		Panasonic	P19307CT-ND	1813
117	1	R109	Y	ERJ-2RKF4322X	43.2K		1/16W	resistor	1%	402		Panasonic	P43.2KLCT-ND	1673
118	1	R111	Y	RC0402JR-073RL		3	1/16W	resistor	5%	402		Yageo	311-3.0JRCT-ND	1612
119	1	R112	Y	ERJ-2RKF1651X	1.65k		1/16W	resistor		402		Panasonic	P1.65KLCT-ND	1816
120	2	R114,R122	Y	TNPW08059K88BEEN	9.88k		1/5W	resistor	0.10%	805		Vishay	541-1894-1-ND	1809
121	1	R118	Y	ERJ-8CWF011V	11m		1W	resistor		1206		Panasonic	P0.011BVCT-ND	1815
122	1	R125	DNI	ERJ-2GE0R00X		0	1/16W	resistor		402		Panasonic	P0.0JCT-ND	687
123	1	R128	Y	RN73H1JTTD2233D100	223k		1/10W	resistor	0.50%	603		KOA	2019-RN73H1JTTD2233D100CT-ND	1811
124	1	R129	Y	RC0402FR-0776K8L	76.8k		1/16W	resistor	1%	402		Yageo	YAG3230CT-ND	1810
125	2	R131,R144	Y	ERJ3EKF3302V	33k		1/16W	resistor	1%	603		Panasonic		620
126	1	R137	Y	ERJ-2RKF2002X	20k		1/10W	resistor	1%	402		Panasonic	P20.0KLCT-ND	1084
127	1	R138	Y	ERJ-2RKF1502X	15k		1/16W	resistor	1%	402		Panasonic	P15.0KLCT-ND	714
128	1	R148	Y	RC0402FR-075K76L	5.76k		1/16W	resistor		402		Yageo	YAG3196CT-ND	1699
129	1	R150	Y	RC0402FR-0756K2L	56.2k		1/16W	resistor	1%	402		Yageo	YAG3187CT-ND	1744
130	1	R151	Y	ERJ-2RKF1052X	10.5k		1/16W	resistor	1%	402		Panasonic	P10.5KLCT-ND	1812
131	1	R152	Y	RC0402FR-07147KL	147k		1/16W	resistor		402		Yageo	YAG2981CT-ND	1818
132	3	R155,R158,R189	DNI	RC0402FR-0710KL	10k		1/16W	resistor	1%	402		Yageo	311-10.0KLRCT-ND	680
133	1	R159	Y	ERJ-2RKF9312X	93.1k		1/16W	resistor	1%	402		Panasonic	P93.1KLCT-ND	1364
134	1	R169	Y	CRCW04022K05FKED	2.05k			resistor		402		Vishay/Dale	541-2.05KLCT-ND	1639
135	2	R175,R182	Y	ERA-2ARB4751X	4.75k		1/16W	resistor	1%	402		Panasonic	P18075CT-ND	1446
136	1	R191	Y	ERJ-2RKF3002X	30.0k		1/16W	resistor	1%	402		Panasonic	P30.0KLCT-ND	909
137	1	R193	Y	ERJ-2RKF3000X		300	1/16W	resistor	1%	402		Panasonic	P300LCT-ND	1053
138	2	R199,R202	Y	RLP73N1ER47FTDF	470m		1/8W	resistor	1%	402		TE Connectivity	A109548CT-ND	1777
139	1	R200	Y	RC0402FR-0719K6L	19.6k		1/16W	resistor		402		Yageo	YAG3026CT-ND	1819
140	1	R201	Y	RC0402FR-0714K7L	14.7k		1/16W	resistor		402		Yageo	YAG2984CT-ND	1817
141	1	R213	Y	RC0402FR-07360KL	360k		1/16W	resistor	1%	402		Yageo	311-360KLRCT-ND	1180
142	1	SW1	Y	GT12MSCBE	GT12MSCBE			switch				C&K	CKN9050CT-ND	1500
143	1	SW2	Y	GT11MSCBE	GT11MSCBE			switch				C&K	CKN1784CT-ND	1035
144	9	TPGND1,TPGND2,TPGND3,TPGND4,TPGND5,TPGND7,TPGND8,TPGND9,TP13	Y		5001	TP_BLK		terminal				Keystone	5001K-ND	946
145	15	TP1,TP2,TP29,TP30,TP33,TP34,TP35,TP42,TP49,TP51,TP52,TP54,TP60,TP68,TP71	Y		5002	TP_WHT		terminal				Keystone	5002K-ND	948
146	9	TP3,TP4,TP5,TP6,TP12,TP26,TP47,TP48,TP67	DNI		5002	TP_WHT		terminal				Keystone	5002K-ND	948
147	29	TP7,TP8,TP9,TP11,TP14,TP16,TP17,TP18,TP19,TP20,TP21,TP22,TP23,TP24,TP25,TP27,TP28,TP32,TP36,TP37,TP38,TP39,TP40,TP41,TP44,TP45,TP46,TP57,TP62	DNI			TP40		hole,plated				-- NOT A PART --	---	995
148	17	TP10,TP15,TP31,TP43,TP50,TP53,TP55,TP56,TP58,TP59,TP61,TP63,TP64,TP65,TP66,TP69,TP70	Y		5011	TP_BLK		terminal				Keystone	36-5011-ND	1161
149	8	U1,U2,U7,U10,U14,U17,U23,U25	Y	SN74AUP1G07DCKR	SN74AUP1G07DCK			buffer				Texas Instruments	296-18256-1-ND	1027
150	6	U3,U4,U5,U6,U8,U42	Y	SN74AUP1G06DCKR	SN74AUP1G06DCK			buffer				Texas Instruments	296-17562-1-ND	1026
151	1	U9	Y	TPS51200DRCR	TPS51200DRCR			reg,ldo				Texas Instruments	296-26978-1-ND	1492
152	2	U11,U43	Y	SN74AHC1G08DBVR	74AHC1G08			and				Texas Instruments	296-1091-1-ND	162
153	1	U12	Y	ECS-2520MVQ-240-BP-TR	24MHz		1.8V-3.3V	oscillator				ECS	50-ECS-2520MVQ-240-BP-CT-ND	1259
154	2	U13,U18	Y	MX25L3233FM2I-08Q	MX25L3233FM2I-08Q		2.65-3.6V	flash, spi				Macronix	1092-1222-ND	1851
155	1	U15	Y	AS4C64M8D2-25BIN	512M,64x8x4banks			sdram,ddr2				Alliance Memory	1450-1129-ND	1836

156	1	U16	Y	DLPC1438ZVBR	DLPC1438		dlp		DPP3438_13mmx13mm_VFBGA_201balls		Texas Instruments	---		1776
157	1	U19	Y	TPS71501DCKR	TPS71501DCK		regulator		SC70_5_DCK_R-PDSO-G5		Texas Instruments	296-12957-1-ND		943
158	1	U20	Y	EP4CE15M9C7N	P3D1438		fpga		MBGA_256		Intel			1795
159	1	U21	Y	DSC1001DI2-096.0000	96MHz	1.8-3.3V	oscillator	25ppm	5032mm_ASFLMB		Microchip Technologies	DSC1001DI2-096.0000-ND		1835
160	2	U22,U37	Y	TXS0102DCU	TXS0102		driver		VSSOP-8_DCU		Texas Instruments	296-21931-1-ND		877
161	1	U24	Y	DLPA2005ERSLR	DLPA2005		regulator		PAD2005_RSL_S-POFP-N48_QFN48		Texas Instruments	---		1201
162	2	U26,U36	Y	TPS54340DDAR	TPS54340		regulator		HSOIC8_DDA_R-PDSO-G8		Texas Instruments	296-35072-1-ND		1264
163	3	U27,U28,U29	Y	LMR33610BDDAR	LMR33610BDDAR		reg,switching		HSOIC8_DDA0008J		Texas Instruments	296-LMR33610BDDARCT-ND		1846
164	2	U30,U32	Y	TCA0372DWR2G	TCA0372DWR2G		opamp		SOIC16W-M25P64_ST		ON Semiconductor	TCA0372DWR2GOSCT-ND		1480
165	1	U31	Y	LM25088MHX-2/NOPB	LM25088MHX-2/NOPB		reg,switching		HTSSOP16_PWP		Texas Instruments	296-43294-1-ND		1828
166	1	U33	Y	DRV8847PWPR	DRV8847PWPR		driver		16HTSSOP_PWP0016C		Texas Instruments	296-53424-1-ND		1778
167	2	U34,U35	Y	DAC081S101CIMK/NOPB	DAC081S101CIMK/NOPB		dac		SOT-23-6_DDC_R-PDSO-G6		Texas Instruments	DAC081S101CIMK/NOPBTR-ND		1313
168	1	U38	Y	TPD2E001DRYR	TPD2E001DRY		diode,tvs		U_6_DRY		Texas Instruments	296-21884-1-ND		1029
169	1	U39	Y	TPS62260DDCT	TPS62260DDCT		regulator		TSOT-23_DDC_R-PDSO-G5		Texas Instruments	296-22469-1-ND		1147
170	2	U40,U41	Y	SN74AHC1G32DBVR	74AHC1G32		or		SOIC5-SOT-23_DBV-TI		Texas Instruments	296-1093-1-ND		163
171	2	V6V,V2V5	DNI		TP,40mil Drill,60mil Pad		hole,plated		HOLE_PLATED_40mil_DRILL_60mil_PAD		-- NOT A PART --	---		377

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