

B2714 PROTOTYPE/PRODUCTION UCHOLA ASSEMBLY LIST

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Item#	Ref#	Part#	X(mm)	Y(mm)	Side	Rotation	INSTPAR
1	QZ2	pn-clk125	53.6	3.2	1	0	CB3LV-3I-50M0000
2	U1	Si590BB100M000DGR	42.8	36.3	1	0	Si590BB100M000DGR
3	U5	pn-EP4CGX15BF14C_F169	69	20	1	180	EP4CGX15BF14C6N
4	U6	pn-epcs4	63.4	2.4	1	0	EPC4SI8N
5	U7	pn-ICS85411	57.3	35.4	1	90	ICS85411AMLF
6	U8	pn-LTM4614	49.5	57.9	1	0	LTM4614EV#PBF
11	J2	pn-jtag_st	106.3	66.8	1	0	103308-1
11	J3	pn-jtag_st	85.3	3.9	1	0	103308-1
12	LED1	pn-led_2.5x5mm	139.4	64.6	1	180	GRN
12	LED4	pn-led_2.5x5mm	139.4	54.4	1	180	GRN
12	LED5	pn-led_2.5x5mm	139.4	51	1	180	GRN
12	LED8	pn-led_2.5x5mm	139.4	40.8	1	180	GRN
13	LED2	pn-led_2.5x5mm	139.4	61.2	1	180	RED
13	LED3	pn-led_2.5x5mm	139.4	57.8	1	180	RED
13	LED6	pn-led_2.5x5mm	139.4	47.6	1	180	RED
13	LED7	pn-led_2.5x5mm	139.4	44.2	1	180	RED
20	L1	pn-F0805	69.8	59.7	1	90	mpz2012s601A
20	L2	pn-F0805	64.4	65.8	1	180	mpz2012s601A
20	L3	pn-F0805	56.7	45.8	1	0	mpz2012s601A
20	L4	pn-F0805	64.7	54.2	1	180	mpz2012s601A
20	L5	pn-F0805	65.6	50.6	1	90	mpz2012s601A
21	R25	pn-R0402	69.5	29.5	1	90	0
21	R29	pn-R0402	67.8	10.4	1	270	0
21	CR11	pn-R0402	59.1	30.2	1	90	0
21	CR12	pn-R0402	58.1	30.2	1	90	0
21	CR3	pn-R0402	55.5	30.2	1	90	0
21	CR9	pn-R0402	56.6	30.2	1	90	0
22	R26	pn-R0402	60.3	19.6	1	180	100
22	R6	pn-R0402	60.3	18.6	1	180	100
22	RT3	pn-R0402	57.3	40.2	1	180	100
23	R18	pn-R0603	88.3	24	1	0	0
23	R20	pn-R0603	88.3	26.8	1	0	0
23	RM1	pn-R0603	37.8	28.6	1	0	0
24	R5	pn-R0603	56.7	9.8	1	270	22
25	RL1	pn-R0603	132.6	64.6	1	180	180
25	RL2	pn-R0603	132.6	61.2	1	180	180

25	RL3	pn-R0603	132.6	57.8	1	180	180	
25	RL4	pn-R0603	68.1	32.8	1	270	180	
25	RL5	pn-R0603	132.6	51	1	180	180	
25	RL6	pn-R0603	132.6	47.6	1	180	180	
25	RL7	pn-R0603	132.6	44.2	1	180	180	
25	RL8	pn-R0603	132.6	40.8	1	180	180	
26	R8	pn-R0603	66.8	29.3	1	270	200	
26	R9	pn-R0603	65.6	29.3	1	90	200	
27	R12	pn-R0603	78.7	23.9	1	180	10K	
27	R37	pn-R0603	38.8	44	1	0	10K	
27	RTB1	pn-R0603	37.1	58.1	1	180	10K	
28	R21	pn-R0603	84.3	25.3	1	0	1k	
30	RR1	pn-R0603	75.7	29.2	1	90	2K	
31	RTA1	pn-R0603	37.2	59.4	1	0	4.99K	
32	RTD	pn-R0603	45	45.2	1	90	49.9K	
34	C104	pn-c0402	78.09	19.3	1	0	0.1u	
35	C105	pn-c0603	68.3	55.9	1	0	0.1u	
35	C107	pn-c0603	78.7	21.4	1	0	0.1u	
35	C110	pn-c0603	71.5	52.9	1	0	0.1u	
35	C122	pn-c0603	77.6	26.9	1	0	0.1u	
35	C123	pn-c0603	75.7	33	1	90	0.1u	
35	C124	pn-c0603	67.8	45.4	1	270	0.1u	
35	C136	pn-c0603	69.5	62.3	1	0	0.1u	
35	C138	pn-c0603	61.9	50	1	0	0.1u	
35	C16	pn-c0603	71.5	29.2	1	90	0.1u	
35	C18	pn-c0603	65.1	10	1	270	0.1u	
35	C24	pn-c0603	37.8	30	1	0	0.1u	
35	C26	pn-c0603	37.8	0	1	0	0.1u	
35	C32	pn-c0603	61.8	9.9	1	270	0.1u	
35	C44	pn-c0603	36.9	61.7	1	180	0.1u	
35	C48	pn-c0603	69	10	1	270	0.1u	
35	C49	pn-c0603	70.5	10	1	270	0.1u	
35	C55	pn-c0603	64.3	55.9	1	0	0.1u	
35	C57	pn-c0603	64.1	64	1	0	0.1u	
35	C58	pn-c0603	64	45.4	1	270	0.1u	
35	C59	pn-c0603	66.6	10	1	270	0.1u	
35	C63	pn-c0603	81.1	18	1	0	0.1u	
35	C73	pn-c0603	60.9	30.7	1	90	0.1u	
35	C74	pn-c0603	64.3	29.3	1	90	0.1u	
35	C75	pn-c0603	63.6	10	1	270	0.1u	
35	C76	pn-c0603	71.6	65.8	1	0	0.1u	
35	C77	pn-c0603	66.74	35.19	1	90	0.1u	
35	C83	pn-c0603	68	67	1	180	0.1u	
35	C89	pn-c0603	56.3	44	1	0	0.1u	
35	C91	pn-c0603	62	35.3	1	90	0.1u	
36	C111	pn-c0603	69.3	35.2	1	90	.01u	
36	C130	pn-c0603	67.3	50.4	1	90	.01u	

36	C131	pn-c0603	75.7	43.1	1	90	.01u	
36	C133	pn-c0603	75.7	37.8	1	90	.01u	
36	C25	pn-c0603	37.8	12.1	1	0	.01u	
36	C31	pn-c0603	36.9	54.3	1	180	.01u	
36	C34	pn-c0603	72.8	29.2	1	90	.01u	
36	C68	pn-c0603	73.3	60.7	1	90	.01u	
36	C69	pn-c0603	72.2	32.1	1	0	.01u	
36	C85	pn-c0603	71.7	60.7	1	90	.01u	
36	C92	pn-c0603	60.5	9.9	1	270	.01u	
36	C94	pn-c0603	72.2	10	1	270	.01u	
36	C96	pn-c0603	51.5	43.6	1	180	.01u	
36	C97	pn-c0603	60.5	35.3	1	90	.01u	
39	C53	pn-c0603p	63.48	35.29	1	90	4.7u	
39	C54	pn-c0603p	84	33	1	0	4.7u	
40	C100	pn-c0805p	71.9	54.4	1	0	10u	
40	C119	pn-c0805p	65.8	45.1	1	270	10u	
40	C23	pn-c0805p	36.8	63.4	1	180	10u	
40	C38	pn-c0805p	36.8	52.7	1	180	10u	
40	C61	pn-c0805p	75.8	58.8	1	0	10u	
40	C70	pn-c0805p	80.3	12.5	1	0	10u	
40	C71	pn-c0805p	62.6	31	1	90	10u	
40	C82	pn-c0805p	51.2	45.5	1	180	10u	
41	C300	pn-c1206p	23.9	7.12	1	180	100u	
41	C301	pn-c1206p	23.9	22.33	1	180	100u	
42	U2	pn-fin1028	50.8	35.4	1	270	fin1028	
43	RT1	pn-R0402	51.4	30.3	1	270	33	
43	RT2	pn-R0402	50.1	30.3	1	270	33	
44	R17	pn-R0603	84.3	24	±	0	DNI	
44	R19	pn-R0603	84.3	26.7	±	0	DNI	
44	R22	pn-R0603	88.3	25.4	±	0	DNI	
44	R23	pn-R0603	55.9	7.6	±	0	DNI	
44	R7	pn-R0603	68.1	29.3	±	270	DNI	
45	CT	pn-c0603p	46.4	45.2	±	270	DNI	
14	D1	pn-bas16	77.8	6	2	0	cmpd4150	
14	D2	pn-bas16	72.7	-0.6	2	0	cmpd4150	
14	D3	pn-bas16	72.7	3.8	2	0	cmpd4150	
14	D4	pn-bas16	87.8	6.2	2	180	cmpd4150	
20	L10	pn-F0805	104.7	24.3	2	180	mpz2012s601A	
20	L11	pn-F0805	104.7	34.4	2	180	mpz2012s601A	
20	L12	pn-F0805	104.8	5.2	2	180	mpz2012s601A	
20	L13	pn-F0805	104.8	15.3	2	180	mpz2012s601A	
22	RT4	pn-R0402	68.6	22	2	270	100	
22	RT5	pn-R0402	68.6	17.9	2	270	100	
23	R124	pn-R0603	115.4	30.7	2	0	0	
23	R154	pn-R0603	115.4	13	2	0	0	
27	R10	pn-R0603	80.9	6.7	2	270	10K	
27	R11	pn-R0603	83	6.7	2	270	10K	

27	R120	pn-R0603	115.4	29.5	2	0	10k	
27	R121	pn-R0603	115.4	28.2	2	0	10k	
27	R122	pn-R0603	115.4	26.9	2	0	10k	
27	R123	pn-R0603	115.4	33.3	2	0	10k	
27	R125	pn-R0603	115.4	25.6	2	0	10k	
27	R13	pn-R0603	81.1	-0.7	2	180	10K	
27	R150	pn-R0603	115.4	10.6	2	0	10k	
27	R151	pn-R0603	115.4	9.3	2	0	10k	
27	R152	pn-R0603	115.4	8	2	0	10k	
27	R153	pn-R0603	115.4	14.3	2	0	10k	
27	R155	pn-R0603	115.4	6.8	2	0	10k	
27	RFB2	pn-R0603	48.9	49	2	180	10K	
27	Rp1	pn-R0603	51.7	68	2	180	10K	
27	Rp2	pn-R0603	47.3	47.7	2	180	10K	
28	R14	pn-R0603	102.4	68.6	2	0	1k	
28	R15	pn-R0603	94	66	2	90	1k	
28	R16	pn-R0603	108.4	66	2	270	1k	
28	R2	pn-R0603	41.4	36	2	270	1K	
28	R1	pn-R0603	42.7	36	2	270	1k	
29	RFB1	pn-R0603	48.7	66.7	2	180	2.37K	
34	C102	pn-c0402	74.8	16.2	2	180	0.1u	
34	C103	pn-c0402	77.1	17.16	2	0	0.1u	
34	C108	pn-c0402	75.1	21.7	2	180	0.1u	
34	C109	pn-c0402	75.1	22.5	2	180	0.1u	
34	C112	pn-c0402	73.8	26.3	2	90	0.1u	
34	C115	pn-c0402	69.1	20.5	2	0	0.1u	
34	C39	pn-c0402	68.56	24.92	2	90	0.1u	
34	C51	pn-c0402	68.41	14.97	2	270	0.1u	
34	C64	pn-c0402	74.4	20.4	2	180	0.1u	
34	C87	pn-c0402	71.02	20.44	2	180	0.1u	
35	C106	pn-c0603	72.8	29.2	2	90	0.1u	
35	C118	pn-c0603	47.2	20.7	2	0	0.1u	
35	C12	pn-c0603	53.7	32.8	2	90	0.1u	
35	C127	pn-c0603	67.8	45.4	2	270	0.1u	
35	C13	pn-c0603	55.7	67.3	2	90	0.1u	
35	C15	pn-c0603	42.5	45.7	2	180	0.1u	
35	C17	pn-c0603	56.6	36.3	2	180	0.1u	
35	C19	pn-c0603	51.4	5.4	2	180	0.1u	
35	C202	pn-c0603	102.6	22.7	2	0	0.1u	
35	C206	pn-c0603	100.9	36.4	2	0	0.1u	
35	C212	pn-c0603	102.7	3.5	2	0	0.1u	
35	C216	pn-c0603	101	17	2	0	0.1u	
35	C27	pn-c0603	24.6	22.97	2	0	0.1u	
35	C28	pn-c0603	24.6	7.76	2	0	0.1u	
35	C40	pn-c0603	69.5	29.2	2	90	0.1u	
35	C41	pn-c0603	103	61.6	2	270	0.1u	
35	C42	pn-c0603	68.1	5.1	2	270	0.1u	

35	C43	pn-c0603	51.6	1	2	180	0.1u	
35	C45	pn-c0603	70.5	10	2	270	0.1u	
35	C46	pn-c0603	91.2	4.6	2	90	0.1u	
35	C47	pn-c0603	104.5	61.6	2	270	0.1u	
35	C50	pn-c0603	84.5	-0.7	2	180	0.1u	
35	C56	pn-c0603	59.8	48.3	2	180	0.1u	
35	C65	pn-c0603	75.5	58.7	2	180	0.1u	
35	C66	pn-c0603	79.5	40.9	2	180	0.1u	
35	C67	pn-c0603	72.2	32.1	2	180	0.1u	
35	C78	pn-c0603	80.2	12.5	2	180	0.1u	
35	C79	pn-c0603	64.3	29.3	2	90	0.1u	
35	C84	pn-c0603	79.7	32.9	2	180	0.1u	
35	C88	pn-c0603	65.6	29.3	2	90	0.1u	
35	C9	pn-c0603	60.1	57.3	2	90	0.1u	
35	C90	pn-c0603	66.6	10	2	270	0.1u	
35	C93	pn-c0603	61.8	9.9	2	270	0.1u	
35	C95	pn-c0603	65.1	10	2	270	0.1u	
36	C113	pn-c0603	74.2	29.2	2	90	.01u	
36	C114	pn-c0603	77.6	25.5	2	180	.01u	
36	C116	pn-c0603	71.6	54.4	2	180	.01u	
36	C117	pn-c0603	69.3	35.2	2	90	.01u	
36	C128	pn-c0603	77.6	26.9	2	180	.01u	
36	C132	pn-c0603	78.1	19.3	2	180	.01u	
36	C134	pn-c0603	64	45.4	2	270	.01u	
36	C201	pn-c0603	107.1	28.8	2	180	.01u	
36	C205	pn-c0603	107.1	30.1	2	180	.01u	
36	C211	pn-c0603	107.2	9.6	2	180	.01u	
36	C215	pn-c0603	107.2	11	2	180	.01u	
36	C220	pn-c0603	119	29.6	2	180	.01u	
36	C222	pn-c0603	119	10.6	2	180	.01u	
36	C29	pn-c0603	24.6	21.7	2	0	.01u	
36	C30	pn-c0603	24.6	6.49	2	0	.01u	
36	C33	pn-c0603	60.8	2.9	2	180	.01u	
36	C86	pn-c0603	65.8	32.2	2	90	.01u	
36	C98	pn-c0603	66.8	29.3	2	90	.01u	
36	C99	pn-c0603	60.5	9.9	2	270	.01u	
37	CR1	pn-c0603	40.7	64.4	2	270	1000p	
38	CC1	pn-c0603	79.5	6.7	2	90	10p	
38	CC2	pn-c0603	75.1	-0.7	2	180	10p	
38	CC3	pn-c0603	74	6	2	90	10p	
38	CC4	pn-c0603	86	6.7	2	90	10p	
38	CF1	pn-c0603	51.7	66.7	2	0	10p	
38	CF2	pn-c0603	51.8	48.9	2	0	10p	
39	C101	pn-c0603p	39	39.7	2	0	4.7u	
39	C120	pn-c0603p	52.2	32.8	2	90	4.7u	
39	C14	pn-c0603p	56.5	40.2	2	180	4.7u	
39	C52	pn-c0603p	88	1	2	180	4.7u	

40	C10	pn-c0805p	58.5	61.1	2	270	10u	
40	C121	pn-c0805p	71.5	45.4	2	180	10u	
40	C20	pn-c0805p	38.1	0	2	180	10u	
40	C21	pn-c0805p	38.1	12.1	2	180	10u	
40	C22	pn-c0805p	38.1	30	2	180	10u	
40	C221	pn-c0805p	119.3	31.2	2	180	10u	
40	C223	pn-c0805p	119.4	12.2	2	180	10u	
40	C35	pn-c0805p	56.7	38.3	2	180	10u	
40	C36	pn-c0805p	61.2	1	2	180	10u	
40	C37	pn-c0805p	38.6	37	2	0	10u	
40	C60	pn-c0805p	81.1	18.1	2	180	10u	
40	C62	pn-c0805p	63	39.1	2	180	10u	
40	C72	pn-c0805p	63.4	9.7	2	270	10u	
40	C8	pn-c0805p	58.5	57.4	2	90	10u	
40	C80	pn-c0805p	56.7	45.8	2	180	10u	
40	C81	pn-c0805p	72.1	9.7	2	270	10u	
41	C1	pn-c1206p	64.2	54.5	2	180	100u	
41	C11	pn-c1206p	63.2	63.2	2	180	100u	
41	C135	pn-c1206p	64.6	60.2	2	0	100u	
41	C137	pn-c1206p	64.2	51.4	2	180	100u	
41	C2	pn-c1206p	60	44.9	2	270	100u	
41	C200	pn-c1206p	107.7	26.8	2	180	100u	
41	C203	pn-c1206p	102.1	20.9	2	0	100u	
41	C204	pn-c1206p	107.7	32	2	180	100u	
41	C207	pn-c1206p	103.8	30.5	2	270	100u	
41	C210	pn-c1206p	107.8	7.7	2	180	100u	
41	C213	pn-c1206p	102.2	1.4	2	0	100u	
41	C214	pn-c1206p	107.8	12.9	2	180	100u	
41	C217	pn-c1206p	103.9	11.5	2	270	100u	
41	C253	pn-c1206p	58.7	52.5	2	270	100u	
41	C254	pn-c1206p	58.7	65.9	2	90	100u	
41	C3	pn-c1206p	75.8	61	2	180	100u	
41	C4	pn-c1206p	72.7	65.8	2	180	100u	
41	C5	pn-c1206p	50.4	45.5	2	0	100u	
41	C6	pn-c1206p	72.7	52.3	2	180	100u	
41	C7	pn-c1206p	66	44.3	2	270	100u	
44	R126	pn-R0603	115.4	32	2	180	DNI	
44	R156	pn-R0603	115.4	11.8	2	180	DNI	
46	CR2	pn-c0603	40.8	56.5	2	90	DNI	