

Mistral Solutions (P) Ltd.	Project name	C-05 EVM
#60 Adarsh nagar,100 Feet Ring Road, Domtur Extension Bangalore 560 071, Ph : +91-80-30912605, Fax :+91-80-20326442	Document name	405 TI X3000V ASSEMBLY BOM REV0
	Date	23 APRIL 2016
	BOM Version	1.3
	Schematic Version	1.20
	Board Revision	2
	Total number of Boards required	5

Item Number	Quantity	Part Reference	Mistral Part No	Value	Description	Mfr. name	Mfr. part number
1	208	C1 C3 C12 C15 C17 C25 C28 C30 C40 C41 C44 C45 C46 C47 C50 C53 C58 C61 C62 C65 C67 C68 C71 C82 C83 C84 C85 C86 C87 C89 C90 C106 C109 C122 C131 C134 C136 C143 C147 C159 C162 C165 C170 C171 C173 C236 C238 C266 C268 C272 C277 C279 C280 C286 C290 C293 C294 C308 C311 C312 C319 C328 C329 C331 C332 C333 C338 C341 C345 C347 C349 C351 C354 C359 C361 C363 C364 C367 C368 C370 C371 C372 C373 C374 C375 C376 C377 C378 C379 C380 C382 C383 C391 C393 C394 C395 C405 C406 C410 C412 C413 C416 C420 C421 C423 C424 C425 C426 C427 C428 C429 C430 C431 C432 C433 C434 C436 C437 C438 C447 C454 C458 C459 C460 C461 C467 C470 C480 C481 C482 C483 C486 C492 C532 C622 C626 C630 C634 C635 C638 C639 C641 C642 C643 C645 C646 C647 C655 C656 C657 C661 C663 C665 C667 C668 C669 C670 C672 C674 C675 C676 C678 C679 C680 C683 C684 C685 C687 C688 C689 C690 C691 C692 C693 C694 C695 C696 C698 C700 C701 C703 C708 C733 C743 C746 C748 C753 C755 C761 C762 C763 C773 C778 C781 C782 C783 C784 C789 C792 C805 C809 C816 C817 C818 C819 C820 C821 C822	120009030060-R	0.1uF	CAP CERAMIC 0.1uF 16V 10% X7R 0402	MURATA	GRM155R71C104KA8D
2	9	G2 C4 C5 C166 C360 C744 C745 C807 C808	120011010016-R	22uF	CAP CERAMIC 22uF 25V 10% X7R 1210	MURATA	GRM32ER71E226KE15L
3	1	C6	120014110007-R	100uF 10V	CAP TANTALUM 100uF 10V 20% ESR 3E B3528	KEMET	T49I8107M010AT
4	11	C7 C73 C76 C95 C414 C4737 C738 C739 C801 C802 C803	120009030191-R	10uF	CAP CERAMIC 10uF 25V 20% X7R 1210	TDK CORPORATION	C123X7R1E100M
5	2	C8 C9	120014110009-R	10000uF 50V	CAP CERAMIC 10000uF 50V 10% X7R 0402	YAGEO	CY4002RX7R9BB103
6	16	C10 C11 C16 C24 C4 C43 C303 C315 C381 C388 C448 C494 C515 C548 C582 C735	120010110025-R	22uF	CAP CERAMIC 22uF 16V 10% X5R 0805	TDK CORPORATION	C2012X5R1C226K
7	14	C14 C18 C24 C39 C100 C118 C219 C130 C167 C452 C726 C734 C740 C784	120011100014-R	0.1uF	CAP CERAMIC 0.1uF 50V 10% X7R 0402	TDK CORPORATION	C1005X7R1H104K
8	47	C15 C19 C31 C34 C57 C59 C66 C73 C88 C201 C206 C213 C240 C254 C265 C276 C282 C287 C291 C305 C384 C385 C387 C389 C390 C396 C401 C409 C411 C418 C419 C423 C550 C552 C560 C612 C632 C648 C659 C666 C687 C699 C741 C758 C778 C794 C810	120014050010-R	1uF	CAP CERAMIC 1uF 10V 10% X5R 0402	AVX CORPORATION	04022D16KAT2A
9	1	C20	120009030203-R	2.2uF	CAP CERAMIC 2.2uF 25V 10% X7R 1210	KEMET	C1210K225KRACTU
10	11	C21 C216 C137 C158 C160 C163 C392 C439 C457 C469 C505	120014030032-R	2.2uF	CAP CERAMIC 2.2uF 16V 20% X5R 0402	TDK CORPORATION	C1005X5R1C225K09BC
11	1	G22	120011110013-R	22uF 35V	CAP TANTALUM 22uF 35V 20% ESR 25mE E7343	AVX CORPORATION	TPME22M035R0025
12	1	C23	120009030526-R	100uF 35V	CAP ELECTROLYTIC 100uF 35V 20% DMCASE 6666	PANASONIC-EGG	EE-FLV101XP
13	3	C24 C24 C78	120009030154-R	1000uF 50V	CAP CERAMIC 1000uF 50V 10% X7R 0402	YENKELL	C0402X7R09-102NKE
14	4	C27 C104 C774 C806	120009030233-R	15uF	CAP CERAMIC 15uF 50V 5% NPO 0402	PANASONIC-EGG	ECJ-4EC1H1301
15	12	C29 C72 C80 C127 C132 C220 C232 C233 C234 C334 C335 C407	120009030322-R	22uF	CAP CERAMIC 22uF 25V 5% NPO 0402	AVX CORPORATION	04023A20JAT2A
16	4	C32 C36 C37 C38	120011010017-R	1uF	CAP CERAMIC 1uF 25V 10% X7R 0603	MURATA	GRM188R71E105KA12D
17	132	C33 C79 C92 C93 C94 C133 C257 C273 C284 C297 C298 C299 C300 C301 C302 C304 C306 C307 C309 C318 C320 C322 C323 C396 C397 C399 C403 C404 C408 C415 C435 C441 C442 C443 C444 C445 C449 C450 C453 C456 C462 C465 C473 C474 C475 C477 C478 C488 C489 C490 C491 C495 C496 C501 C502 C503 C506 C507 C508 C509 C511 C512 C513 C514 C516 C517 C518 C519 C520 C522 C523 C524 C528 C529 C530 C531 C533 C541 C542 C543 C544 C545 C547 C548 C555 C559 C563 C568 C569 C570 C71 C579 C580 C581 C583 C584 C589 C602 C603 C604 C605 C606 C607 C608 C633 C649 C650 C651 C653 C654 C671 C673 C681 C686 C704 C706 C707 C710 C756 C757 C775 C776 C785 C786 C790 C791 C798 C799 C800 C812 C813 C815	120009030302-R	0.01uF	CAP CERAMIC 0.01uF 16V 10% X7R 0402	PANASONIC-EGG	ECJ-0EB1C103K
18	5	C45 C36 C37 C38 C39	120009E+11	0.47uF	CAP CERAMIC 0.47uF 25V 10% X7R 0603	MURATA	GRM188R71E474KA12D
19	12	C46 C49 C49 C17 C172 C177 C189 C204 C205 C214 C227 C267 C585	120009E+11	100uF	CAP CERAMIC 100uF 10V 20% X5R 1210	TAIYO YUDEN	LMK3250107MM-T
20	2	C51 C48	120009060010-R	120uF	CAP POLYMER 120uF 16V 20% ECASE 8303	NICHICON	PJCU1212MCL1G5
21	2	C52 C53	120009030241-R	10uF	CAP CERAMIC 10uF 50V 5% NPO 0402	AVX CORPORATION	04025A10B1AT2A
22	2	C54 C60	120009E+11	33uF	CAP CERAMIC 33uF 50V 5% NPO 0603	YAGEO AMERICA	CY4005GNP09B3X30
23	1	C56	120010030006-R	0.01uF	CAP CERAMIC 0.01uF 16V 10% X7R 0402	PANASONIC-EGG	ECJ-0EB1C103K
24	1	C63	120009030502-R	6200uF	CAP CERAMIC 6200uF 10V 10% X7R 0402	KEMET	C0402C322K4RACTU
25	15	C69 C100 C105 C113 C146 C222 C288 C350 C355 C356 C711 C713 C717 C720 C723	120011050004-R	4.7uF	CAP CERAMIC 4.7uF 16V 10% X5R 0603	TAIYO YUDEN	EMK107AB473KA-T
26	14	C70 C102 C180 C184 C202 C210 C216 C217 C219 C249 C250 C256 C253 C293	120011010015-R	0.01uF	CAP CERAMIC 0.01uF 10V 10% X5R 0001	TDK CORPORATION	04003X5R1A103K
27	31	C81 C111 C123 C140 C142 C148 C154 C169 C233 C239 C255 C256 C292 C296 C310 C316 C324 C325 C326 C330 C336 C337 C438 C439 C436 C362 C369 C467 C702 C709 C759	120011040011-R	10uF	CAP CERAMIC 10uF 16V 10% X5R 0805	AVX CORPORATION	0805YD106KAT2A
28	1	C91	120011070007-R	3.3uF	CAP CERAMIC 3.3uF 6.3V 10% X5R 0603	TDK CORPORATION	C1608X5R10533K6
29	1	C101	120010120021-R	330uF 6.3V	CAP TANTALUM 330uF 6.3V 20% ESR 10mE D7343-31	KEMET	T5300337M006ATE010
30	6	C107 C108 C136 C468 C485 C498	120009030424-R	4.7uF	CAP CERAMIC 4.7uF 25V 10% X5R 1206	AVX CORPORATION	12063D475KAT2A
31	70	C110 C112 C114 C121 C124 C125 C126 C137 C138 C141 C149 C150 C151 C152 C155 C161 C164 C178 C179 C185 C187 C224 C225 C229 C230 C231 C357 C358 C365 C366 C440 C446 C455 C464 C466 C471 C472 C476 C484 C487 C493 C500 C504 C510 C521 C534 C537 C540 C541 C543 C565 C578 C595 C596 C598 C599 C601 C609 C610 C712 C714 C715 C716 C718 C719 C721 C722 C724 C725 C759	120009E+11	0.1uF	CAP CERAMIC 0.1uF 25V -20% TO +80 V5R 0402	MURATA	GRM155R71E104ZA01D
32	5	C135 C227 C242 C433 C444	120011060001-R	47uF	CAP CERAMIC 47uF 16V 20% X5R 1206	TDK CORPORATION	C216X5R105470M
33	3	C144 C145 C417	120009E+11	0.22uF	CAP CERAMIC 0.22uF 10V 10% X5R 0402	MURATA	GRM155R61A224KE19D
34	1	C168	120011040005-R	8.2uF	CAP CERAMIC 8.2uF 50V 5% C0G 0402	JOHANSSON TECHNOLOGY	500R0758R2CV-4T
35	90	C174 C175 C176 C181 C182 C183 C188 C190 C191 C192 C193 C194 C195 C196 C197 C198 C199 C200 C203 C208 C209 C211 C212 C215 C218 C221 C226 C228 C237 C242 C243 C244 C246 C247 C248 C252 C253 C259 C260 C261 C263 C255 C527 C535 C536 C538 C539 C549 C551 C553 C556 C557 C558 C560 C562 C564 C566 C567 C572 C573 C574 C575 C576 C577 C586 C587 C588 C590 C591 C592 C593 C594 C597 C611 C613 C614 C615 C616 C617 C618 C619 C620 C621 C623 C624 C625 C627 C628 C631 C760	120009E+11	0.1uF	CAP CERAMIC 0.1uF 10V 10% X5R 0001	TAIYO YUDEN	LMK06301010RP-F
36	2	C207 C251	1200105E+11	1uF	CAP CERAMIC 1uF 25V 20% X7R 0204	MURATA	L11153K7R010ME21
37	1	C255	120014060013-R	4.7uF	CAP CERAMIC 4.7uF 50V 20% X5R 0805	TDK CORPORATION	C2012X5R1H475M
38	1	C254	120009030451-R	470uF	CAP CERAMIC 470uF 50V 10% X7R 0402	AVX CORPORATION	0402C471KAT2A
39	2	C262 C269	120009030166-R	100uF	CAP CERAMIC 100uF 16V 10% X7R 0603	AVX CORPORATION	0603Y1010KAT2A
40	2	C271 C276	120014110006-R	5uF	CAP CERAMIC 5uF 50V 5% NPO 0402	YAGEO AMERICA	CY4002GNP09B3X30
41	2	C283 C295	120009030215-R	12uF	CAP CERAMIC 12uF 50V 5% NPO 0402	AVX CORPORATION	04025A120AT2A
42	4	C313 C314 C317 C321	120014070037-R	100uF	CAP CERAMIC 100uF 25V 10% NPO 0402	KEMET	C0402C101K6ACTU
43	4	C352 C353 C752 C754	120014070039-R	3.3uF	CAP CERAMIC 3.3uF 10V 10% X5R 0603	TDK CORPORATION	C1608X5R1A133K080AC
44	1	C386	120009E+11	1000uF	CAP CERAMIC 1000uF 50V 5% NPO 0402	MURATA	GRM155C1H102JA01D
45	1	C451	120009E+11	330uF	CAP CERAMIC 330uF 50V 5% NPO 0402	MURATA	GRM155C1H331JA01D
46	2	C742 C811	120011100005-R	3300uF	CAP CERAMIC 3300uF 50V 5% X7R 0805	MURATA	GRM326R71H332JA01D
47	1	C795	12001500202-R	3.3uF	CAP CERAMIC 3.3uF 6.3V 20% X5R 0402	TDK CORPORATION	C1005X5R0135M002BC
48	1	C796	120009030426-R	4.7uF	CAP CERAMIC 4.7uF 6.3V 10% X5R 0603	KEMET	C0603C4758RPACTU
49	1	C797	120015002003-R	0.33uF	CAP CERAMIC 0.33uF 6.3V 20% JB 0201	TDK CORPORATION	C0603R080334M030BC
50	2	C824 C826	120013030001-R	0.1uF	CAP CERAMIC 0.1uF 100V 10% X7R 0603	YAGEO AMERICA	CY3003K8X7R08B104
51	1	C825	120011200008-R	22uF 100V	CAP ELECTROLYTIC 22uF 100V 20% GCASE 102103	PANASONIC-EGG	EEE-HA2AG2P
52	1	C826	12001400024-R	100uF	IC LOW VOLTAGE ADJUSTABLE PRECISION SHUNT REGULATORS SOT23-5	TEXAS INSTRUMENTS	TLV431ACDBVR
53	1	D1	1300010120033-R	B540C-13-F	DIODE SCHOTTKY 40V 5A SMC	DIODES INC	B540C-13-F
54	1	D4	130014060020-R	MMSD103T1G	DIODE SWITCHING 250V 0.2A SOD123	ON SEMICONDUCTOR	MMSD103T1G
55	1	D5	130011010038-R	BS240-13-F	DIODE SCHOTTKY RECTIFIER 40V 2A SMA	DIODES INC	BS240-13-F
56	8	D6 D7 D8 D9 D10 D11 D12 D13	130014110022-R	TPD1E1086GDPY	DIODE ICH-SD PROTECTION SMD(0402)	TEXAS INSTRUMENTS	TPD1E1086GDPY
57	2	D14 D15	130015070018-R	TPD2E1830RDRTR	DIODE 2-CHANNEL USR PROTECTION DIODES SOT-3	TEXAS INSTRUMENTS	TPD2E1830RDRTR
58	1	D17	130015100009-R	SMC-R64CA	DIODE TVS BL-DIODE 1500W 64V SMC	LITTLE FUSE	SMC-R64CA
59	1	D18	130010120013-R	BZT52C-13S	DIODE ZENER 13V 200mW SOD323	DIODES INC	BZT52C-13S-7
60	1	D19	130009E+11	S14C-13-F	DIODE RECTIFIER 40V 1A SMA	DIODES INC	S14C-13-F
61	1	F2	130012030044-R	5A	FUSE 5A 32V 1206	LITTLE FUSE	0400055WR
62	4	FBI F35 F38 F39	130014060028-R	300E	IND FERRITE CHIP 300E 500mA 0603	TDK CORPORATION	MMZ1608R301A
63	32	FB2 FB5 FB7 FB8 FB13 FB14 FB15 FB17 FB19 FB20 FB21 FB23 FB24 FB25 FB27 FB28 FB29 FB32 FB33 FB34 FB41 FB42 FB43 FB44 FB45 FB46 FB47 FB48 FB49 FB53 FB52 FB53	130011070007-R	120E	IND BEAD CHIP 120E 1.2A 0402	TDK CORPORATION	MPZ1005S121C
64	4	FB11 FB26 FB37 FB40	130009E+11	10E	IND FERRITE BEAD CHIP 10E SMD	TDK CORPORATION	HE75ACB201209
65	2	FB26 FB33	130014000051-R	1K	PASSIVE FILTER CHIP 1K 250mA 0402	MURATA	BLM150H1002SN1D
66	4	FL1 FL2 FL6 FL11	13001060030-R	10K	FERRITE BEAD 120E 2A 0603	MURATA	BLM18EG11SN1D
67	2	FL3 FL5	130009030747-R	0.47uF	PASSIVE FILTER EMI 0.47uF 2A 0603	MURATA	NFM10P547480J3
68	3	FL7 FL8 FL19	130009E+11	100uF	PASSIVE FILTER EMI 100uF 0001-3	MURATA	NFL125P100K1C1D
69	4	FL13 FL14 FL15 FL16	130009E+11	50E	PASSIVE FILTER EMI 50E 3000MA 1206	MURATA	BLM131P500SN1L
70	1	FL19	130013000027-R	120E	FERRITE CHIP 120E 13A 0603	MURATA	BLM18KG121T1ND
71	1	J1	150012070001-R	CON MINI USB-B 3-F	CON MINI USB-B TYPE SPDS FEMALE RT TH	MOLEX	548109510
72	1	J2	150014020030-R	CON EDGE 30X2	CON EDGE 30X2 EDGE CARD SOCKET RA SMD	SAMTEC	MEEC6-150-02-S-D-RA1-TR
73	1	J3	15001020010-R	CON PW JACKS3 RAPC722	CON POWER JACK 30V 1.5AMPIN-DIA MALE RT TH	SWITCHCRAFT	RAPC-722X
74	2	J4 J49	150011010025-R	HDR_6X1	CON HDR 6X1 2.54MM PITCH ST TH	TYCO ELECTRONICS	87224-6

75	1	J5	150014120003-R	CON36 PCI	CON PCI EXPRESS 36PDS SMD	FC3	10061913-100CLF
76	1	J6	150014110002-R	HDR_1X4	CON HDR 1X4 2.54MM PITCH ST TH	TE CONNECTIVITY	640454-4
77	1	J7	150011110024-R	HDR_2X2	CON HDR 7X2 2.54MM PITCH ST TH	SAMTEC	TSW-107-25-0-D
78	1	J8	150011090001-R	CON_10X2	CON 10X2 1.27MM PITCH MALE SMD	SAMTEC	FTB-110-51-S-D-06
79	9	J9 J11 J15 J16 J17 J44 J45 J46 J48	150011020004-R	HDR_3X1	CON HDR 3X1 2.54MM PITCH ST TH	YAGEO ELECTRONICS	FT224-3
80	15	J10 J11 J14 J25 J26 J27 J28 J29 J30 J39 J40 J41 J42 J43 J50	150009030246-R	HDR_2X1	CON HDR 2X1 2.54MM PITCH ST TH	MOLEX	22-03-2021
81	1	J11	150010100010-R	HDR_2X25	CON HDR 2X25 2.54MM PITCH ST TH	SAMTEC	TSW-125-26-T-D
82	1	J10	150009E-11	HDR_5X1	CON HDR 5X1 2.54MM PITCH ST TH	MOLEX	22-03-2051
83	1	J10	150009E-11	CON_PMC_30X2_F	CON PMC 30X2 0.50MM PITCH FEMALE ST SMD	SAMTEC	QSH-030-01-L-D-A
84	1	J21	150014110009-R	CON_FLEX_1X6	CON FLEX 1X6 686106014122	WURTH ELECTRONICS INC	686106014122
85	1	J22	150014110011-R	CON_FLEX_1X40_62664-4011	CON FPC 1X40 0.50MM PITCH RTM RT SMD	FC1	62664-01100ALF
86	1	J23	150009E-11	CON_MUSB-B_5_F	CON MINI USB-B TYPE SPOS FEMALE RT SMD	MOLEX	54819-0572
87	1	J31	150014060029-R	CON_R45-14_LPG163144ANL	CON R45 FEMALE 14PDS RT TH	LENK-PP	1PG163144ANL
88	2	J32 J33	150014050028-R	CON_AUDIOACK4_SJ-3524-SMT	CON AUDIO JACK 4PDS FEMALE RT SMD	CLT INC	SA-3524-SMT-1
89	1	J34	150011100006-R	CON_PMC_20X2_F	CON PMC 20X2 0.50MM PITCH FEMALE ST SMD	SAMTEC	QSH-020-01-L-D-DP-A
90	1	J35	150015070016-R	CON_USB-A_87583-2010BLF	CON USB TYPE-A RECPT 4PDS FLAG PCB FEMALE RT SMD	FC1	87583-2010BLF
91	1	J36	15001E-11	CON_HDMI_19X1	CON RECEPTACLE HDMI TYPE A RT SMD	FC1	10029449-001RLF
92	1	J37	150011090007-R	CON_SDCARD_8_DM3AT-SF-PE1M5	CON SD CARD PUSH/POSH 8PDS SMD	HIROSE ELECTRIC EUROPE	DM3AT-SF-PE1M5
93	1	J38	150010120013-R	CON_USB-AB_5_M	CON RECEPTACLE USB 3PDS MALE RT SMD	HBS	ZX62-AB-5PA(11)
94	1	J39	150014100037-R	HDR_2X50	CON HDR 2X50 2.54MM PITCH ST TH	SAMTEC	TSW-150-26-T-D
95	1	J1	150009030559-R	22uH	IND POWER 2.2uH 2.5A 30% SMD	COIL TRONICS	DR1040-220-R
96	1	J2	150013060021-R	2.2uH	IND CHIP COIL 2.2uH 30% 100R	MURATA	LCQ42HPN3023M3
97	1	J3	150010060031-R	3.3uH	IND COIL 3.3uH 16A 20% SMD	SUSUMU	PCBM104T-3R3MS
98	1	J4	150011100015-R	2.7uH	IND POWER 2.7uH 20% 12.8A SMD	COIL CRAFT	XAL7030-272MEB
99	3	J5 L5 L6 L7	150010060006-R	2.2uH	IND POWER 2.2uH 2.6A 30% SMD	TDR CORPORATION	VLCS2020T-2R2N2B6-3
100	1	J6	150010050102-R	4.7uH	IND POWER 4.7uH 1.7A 30% SMD	TDR CORPORATION	VLCS2020T-4R7N1R1-1
101	2	J5 L10	150010060018-R	2.2uH	IND POWER 2.2uH 61A 20% SMD	EPCOS	B62476A1222M
102	2	L1 L1 L2	150010060008-R	47uH	IND CHOKER 47uH SMD	COIL CRAFT	0805/5SB-001MLB
103	5	L1 L1 L2 L3 L4 L10 L15	150014050096-R	598-8140-107F	LED ALINGAP YELLOW CLEAR 0805 SMD	DIALIGHT	598-8140-107F
104	6	L06 L12 L19 L28 L39 L101 L102 L103 L104 L105 L106 L107 L108 L109 L110 L111 L112 L113 L114 L115 L116 L117 L118 L119 L120 L121 L122 L123 L124 L125 L126 L127 L128 L129 L130 L131 L132 L133 L134 L135 L136 L137 L138 L139 L140 L141 L142 L143 L144 L145 L146 L147 L148 L149 L150 L151 L152 L153 L154 L155 L156 L157 L158 L159 L160 L161 L162 L163 L164 L165 L166 L167 L168 L169 L170 L171 L172 L173 L174 L175 L176 L177 L178 L179 L180 L181 L182 L183 L184 L185 L186 L187 L188 L189 L190 L191 L192 L193 L194 L195 L196 L197 L198 L199 L200 L201 L202 L203 L204 L205 L206 L207 L208 L209 L210 L211 L212 L213 L214 L215 L216 L217 L218 L219 L220 L221 L222 L223 L224 L225 L226 L227 L228 L229 L230 L231 L232 L233 L234 L235 L236 L237 L238 L239 L240 L241 L242 L243 L244 L245 L246 L247 L248 L249 L250 L251 L252 L253 L254 L255 L256 L257 L258 L259 L260 L261 L262 L263 L264 L265 L266 L267 L268 L269 L270 L271 L272 L273 L274 L275 L276 L277 L278 L279 L280 L281 L282 L283 L284 L285 L286 L287 L288 L289 L290 L291 L292 L293 L294 L295 L296 L297 L298 L299 L300 L301 L302 L303 L304 L305 L306 L307 L308 L309 L310 L311 L312 L313 L314 L315 L316 L317 L318 L319 L320 L321 L322 L323 L324 L325 L326 L327 L328 L329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345 L346 L347 L348 L349 L350 L351 L352 L353 L354 L355 L356 L357 L358 L359 L360 L361 L362 L363 L364 L365 L366 L367 L368 L369 L370 L371 L372 L373 L374 L375 L376 L377 L378 L379 L380 L381 L382 L383 L384 L385 L386 L387 L388 L389 L390 L391 L392 L393 L394 L395 L396 L397 L398 L399 L400 L401 L402 L403 L404 L405 L406 L407 L408 L409 L410 L411 L412 L413 L414 L415 L416 L417 L418 L419 L420 L421 L422 L423 L424 L425 L426 L427 L428 L429 L430 L431 L432 L433 L434 L435 L436 L437 L438 L439 L440 L441 L442 L443 L444 L445 L446 L447 L448 L449 L450 L451 L452 L453 L454 L455 L456 L457 L458 L459 L460 L461 L462 L463 L464 L465 L466 L467 L468 L469 L470 L471 L472 L473 L474 L475 L476 L477 L478 L479 L480 L481 L482 L483 L484 L485 L486 L487 L488 L489 L490 L491 L492 L493 L494 L495 L496 L497 L498 L499 L500 L501 L502 L503 L504 L505 L506 L507 L508 L509 L510 L511 L512 L513 L514 L515 L516 L517 L518 L519 L520 L521 L522 L523 L524 L525 L526 L527 L528 L529 L530 L531 L532 L533 L534 L535 L536 L537 L538 L539 L540 L541 L542 L543 L544 L545 L546 L547 L548 L549 L550 L551 L552 L553 L554 L555 L556 L557 L558 L559 L560 L561 L562 L563 L564 L565 L566 L567 L568 L569 L570 L571 L572 L573 L574 L575 L576 L577 L578 L579 L580 L581 L582 L583 L584 L585 L586 L587 L588 L589 L590 L591 L592 L593 L594 L595 L596 L597 L598 L599 L600 L601 L602 L603 L604 L605 L606 L607 L608 L609 L610 L611 L612 L613 L614 L615 L616 L617 L618 L619 L620 L621 L622 L623 L624 L625 L626 L627 L628 L629 L630 L631 L632 L633 L634 L635 L636 L637 L638 L639 L640 L641 L642 L643 L644 L645 L646 L647 L648 L649 L650 L651 L652 L653 L654 L655 L656 L657 L658 L659 L660 L661 L662 L663 L664 L665 L666 L667 L668 L669 L670 L671 L672 L673 L674 L675 L676 L677 L678 L679 L680 L681 L682 L683 L684 L685 L686 L687 L688 L689 L690 L691 L692 L693 L694 L695 L696 L697 L698 L699 L700 L701 L702 L703 L704 L705 L706 L707 L708 L709 L710 L711 L712 L713 L714 L715 L716 L717 L718 L719 L720 L721 L722 L723 L724 L725 L726 L727 L728 L729 L730 L731 L732 L733 L734 L735 L736 L737 L738 L739 L740 L741 L742 L743 L744 L745 L746 L747 L748 L749 L750 L751 L752 L753 L754 L755 L756 L757 L758 L759 L760 L761 L762 L763 L764 L765 L766 L767 L768 L769 L770 L771 L772 L773 L774 L775 L776 L777 L778 L779 L780 L781 L782 L783 L784 L785 L786 L787 L788 L789 L790 L791 L792 L793 L794 L795 L796 L797 L798 L799 L800 L801 L802 L803 L804 L805 L806 L807 L808 L809 L810 L811 L812 L813 L814 L815 L816 L817 L818 L819 L820 L821 L822 L823 L824 L825 L826 L827 L828 L829 L830 L831 L832 L833 L834 L835 L836 L837 L838 L839 L840 L841 L842 L843 L844 L845 L846 L847 L848 L849 L850 L851 L852 L853 L854 L855 L856 L857 L858 L859 L860 L861 L862 L863 L864 L865 L866 L867 L868 L869 L870 L871 L872 L873 L874 L875 L876 L877 L878 L879 L880 L881 L882 L883 L884 L885 L886 L887 L888 L889 L890 L891 L892 L893 L894 L895 L896 L897 L898 L899 L900 L901 L902 L903 L904 L905 L906 L907 L908 L909 L910 L911 L912 L913 L914 L915 L916 L917 L918 L919 L920 L921 L922 L923 L924 L925 L926 L927 L928 L929 L930 L931 L932 L933 L934 L935 L936 L937 L938 L939 L940 L941 L942 L943 L944 L945 L946 L947 L948 L949 L950 L951 L952 L953 L954 L955 L956 L957 L958 L959 L960 L961 L962 L963 L964 L965 L966 L967 L968 L969 L970 L971 L972 L973 L974 L975 L976 L977 L978 L979 L980 L981 L982 L983 L984 L985 L986 L987 L988 L989 L990 L991 L992 L993 L994 L995 L996 L997 L998 L999 L1000 L1001 L1002 L1003 L1004 L1005 L1006 L1007 L1008 L1009 L1010 L1011 L1012 L1013 L1014 L1015 L1016 L1017 L1018 L1019 L1020 L1021 L1022 L1023 L1024 L1025 L1026 L1027 L1028 L1029 L1030 L1031 L1032 L1033 L1034 L1035 L1036 L1037 L1038 L1039 L1040 L1041 L1042 L1043 L1044 L1045 L1046 L1047 L1048 L1049 L1050 L1051 L1052 L1053 L1054 L1055 L1056 L1057 L1058 L1059 L1060 L1061 L1062 L1063 L1064 L1065 L1066 L1067 L1068 L1069 L1070 L1071 L1072 L1073 L1074 L1075 L1076 L1077 L1078 L1079 L1080 L1081 L1082 L1083 L1084 L1085 L1086 L1087 L1088 L1089 L1090 L1091 L1092 L1093 L1094 L1095 L1096 L1097 L1098 L1099 L1100 L1101 L1102 L1103 L1104 L1105 L1106 L1107 L1108 L1109 L1110 L1111 L1112 L1113 L1114 L1115 L1116 L1117 L1118 L1119 L1120 L1121 L1122 L1123 L1124 L1125 L1126 L1127 L1128 L1129 L1130 L1131 L1132 L1133 L1134 L1135 L1136 L1137 L1138 L1139 L1140 L1141 L1142 L1143 L1144 L1145 L1146 L1147 L1148 L1149 L1150 L1151 L1152 L1153 L1154 L1155 L1156 L1157 L1158 L1159 L1160 L1161 L1162 L1163 L1164 L1165 L1166 L1167 L1168 L1169 L1170 L1171 L1172 L1173 L1174 L1175 L1176 L1177 L1178 L1179 L1180 L1181 L1182 L1183 L1184 L1185 L1186 L1187 L1188 L1189 L1190 L1191 L1192 L1193 L1194 L1195 L1196 L1197 L1198 L1199 L1200 L1201 L1202 L1203 L1204 L1205 L1206 L1207 L1208 L1209 L1210 L1211 L1212 L1213 L1214 L1215 L1216 L1217 L1218 L1219 L1220 L1221 L1222 L1223 L1224 L1225 L1226 L1227 L1228 L1229 L1230 L1231 L1232 L1233 L1234 L1235 L1236 L1237 L1238 L1239 L1240 L1241 L1242 L1243 L1244 L1245 L1246 L1247 L1248 L1249 L1250 L1251 L1252 L1253 L1254 L1255 L1256 L1257 L1258 L1259 L1260 L1261 L1262 L1263 L1264 L1265 L1266 L1267 L1268 L1269 L1270 L1271 L1272 L1273 L1274 L1275 L1276 L1277 L1278 L1279 L1280 L1281 L1282 L1283 L1284 L1285 L1286 L1287 L1288 L1289 L1290 L1291 L1292 L1293 L1294 L1295 L1296 L1297 L1298 L1299 L1300 L1301 L1302 L1303 L1304 L1305 L1306 L1307 L1308 L1309 L1310 L1311 L1312 L1313 L1314 L1315 L1316 L1317 L1318 L1319 L1320 L1321 L1322 L1323 L1324 L1325 L1326 L1327 L1328 L1329 L1330 L1331 L1332 L1333 L1334 L1335 L1336 L1337 L1338 L1339 L1340 L1341 L1342 L1343 L1344 L1345 L1346 L1347 L1348 L1349 L1350 L1351 L1352 L1353 L1354 L1355 L1356 L1357 L1358 L1359 L1360 L1361 L1362 L1363 L1364 L1365 L1366 L1367 L1368 L1369 L1370 L1371 L1372 L1373 L1374 L1375 L1376 L1377 L1378 L1379 L1380 L1381 L1382 L1383 L1384 L1385 L1386 L1387 L1388 L1389 L1390 L1391 L1392 L1393 L1394 L1395 L1396 L1397 L1398 L1399 L1400 L1401 L1402 L1403 L1404 L1405 L1406 L1407 L1408 L1409 L1410 L1411 L1412 L1413 L1414 L1415 L1416 L1417 L1418 L1419 L1420 L1421 L1422 L1423 L1424 L1425 L1426 L1427 L1428 L1429 L1430 L1431 L1432 L1433 L1434 L1435 L1436 L1437 L1438 L1439 L1440 L1441 L1442 L1443 L1444 L1445 L1446 L1447 L1448 L1449 L1450 L1451 L1452 L1453 L1454 L1455 L1456 L1457 L1458 L1459 L1460 L1461 L1462 L1463 L1464 L1465 L1466 L1467 L1468 L1469 L1470 L1471 L1472 L1473 L1474 L1475 L1476 L1477 L1478 L1479 L1480 L1481 L1482 L1483 L1484 L1485 L1486 L1487 L1488 L1489 L1490 L1491 L1492 L1493 L1494 L1495 L1496 L1497 L1498 L1499 L1500 L1501 L1502 L1503 L1504 L1505 L1506 L1507 L1508 L1509 L1510 L1511 L1512 L1513 L1514 L1515 L1516 L1517 L1518 L1519 L1520 L1521 L1522 L1523 L1524 L1525 L1526 L1527 L1528 L1529 L1530 L1531 L1532 L1533 L1534 L1535 L1536 L1537 L1538 L1539 L1540 L1541 L1542 L1543 L1544 L1545 L1546 L1547 L1548 L1549 L1550 L1551 L1552 L1553 L1554 L1555 L1556 L1557 L1558 L1559 L1560 L1561 L1562 L1563 L1564 L1565 L1566 L1567 L1568 L1569 L1570 L1571 L1572 L1573 L1574 L1575 L1576 L1577 L1578 L1579 L1580 L1581 L1582 L1583 L1584 L1585 L1586 L1587 L1588 L1589 L1590 L1591 L1592 L1593 L1594 L1595 L1596 L1597 L1598 L1599 L1600 L1601 L1602 L1603 L1604 L1605 L1606 L1607 L1608 L1609 L1610 L1611 L1612 L1613 L1614 L1615 L1616 L1617 L1618 L1619 L1620 L1621 L1622 L1623 L1624 L1625 L1626 L1627 L1628 L1629 L1630 L1631 L1632 L1633 L1634 L1635 L1636 L1637 L1638 L1639 L1640 L1641 L1642 L1643 L1644 L1645 L1646 L1647 L1648 L1649 L1650 L1651 L1652 L1653 L1654 L1655 L1656 L1657 L1658 L1659 L1660 L1661 L1662 L1663 L1664 L1665 L1666 L1667 L1668 L1669 L1670 L1671 L1672 L1673 L1674 L1675 L1676 L1677 L1678 L1679 L1680 L1681 L1682 L1683 L1684 L1685 L1686 L1687 L1688 L1689 L1690 L1691 L1692 L1693 L1694 L1695 L1696 L1697 L1698 L1699 L1700 L1701 L1702 L1703 L1704 L1705 L1706 L1707 L1708 L1709 L1710 L1711 L1712 L1713 L1714 L1715 L1716 L1717 L1718 L1719 L1720 L1721 L1722 L1723 L1724 L1725 L1726 L1727 L1728 L1729 L1730 L1731 L1732 L1733 L1734 L1735 L1736 L1737 L1738 L1739 L1740 L1741 L1742 L1743 L1744 L1745 L1746 L1747 L1748 L1749 L1750 L1751 L1752 L1753 L1754 L1755 L1756 L1757 L1758 L1759 L1760 L1761 L1762 L1763 L1764 L1765 L1766 L1767 L1768 L1769 L1770 L1771 L1772 L1773 L1774 L1775 L1776 L1777 L1778 L1779 L1780 L1781 L1782 L1783 L1784 L1785 L1786 L1787 L1788 L1789 L1790 L1791 L1792 L1793 L1794 L1795 L1796 L1797 L1798 L1799 L1800 L1801 L1802 L1803 L1804 L1805 L1806 L1807 L1808 L1809 L1810 L1811 L1812 L1813 L1814 L1815 L1816 L1817 L1818 L1819 L1820 L1821 L1822 L1823 L1824 L1825 L1826 L1827 L1828 L1829 L1830 L1831 L1832 L1833 L1834 L1835 L1836 L1837 L1838 L1839 L1840 L1841 L1842 L1843 L1844 L1845 L1846 L1847 L1848 L1849 L1850 L1851 L1852 L1853 L1854 L1855 L1856 L1857 L1858 L1859 L1860 L1861 L1862 L1863 L1864 L1865 L1866 L1867 L1868 L1869 L1870 L1871 L1872 L1873 L1874 L1875 L1876 L1877 L1878 L1879 L1880 L1881 L1882 L1883 L1884 L1885 L1886 L1887 L1888 L1889 L1890 L1891 L1892 L1893 L1894 L1895 L1896 L1897 L1898 L1899 L1900 L1901 L1902 L1903 L1904 L1905 L1906 L1907 L1908 L1909 L1910 L1911 L1912 L1913 L1914 L1915 L1916 L1917 L1918 L1919 L1920 L1921 L1922 L1923 L1924 L1925 L1926 L1927 L1928 L1929 L1930 L1931 L1932 L1933 L1934 L1935 L1936 L1937 L1938 L1939 L1940 L1941 L1942 L1943 L1944 L1945 L1946 L1947 L1948 L1949 L1950 L1951 L1952 L1953 L1954 L1955 L1956 L1957 L1958 L1959 L1960 L1961 L1962 L1963 L1964 L1965 L1966 L1967 L1968 L1969 L1970 L1971 L1972 L1973 L1974 L1975 L1976 L1977 L1978 L1979 L1980 L1981 L1982 L1983 L1984 L1985 L1986 L1987 L1988 L1989 L1990 L1991 L1992 L1993 L1994 L1995 L1996 L1997 L1998 L1999 L2000 L2001 L2002 L2003 L2004 L2005 L2006 L2007 L2008 L2009 L2010 L2011 L2012 L2013 L2014 L2015 L2016 L2017 L2018 L2019 L2020 L2021 L2022 L2023 L2024 L2025 L2026 L2027 L2028 L2029 L2030 L2031 L2032 L2033 L2034 L2035 L2036 L2037 L2038 L2039 L2040 L2041 L2042 L2043 L2044 L2045 L2046 L2047 L2048 L2049 L2050 L2051 L2052 L2053 L2054 L2055 L2056 L2057 L2058 L2059 L2060 L2061 L2062 L2063 L2064 L2065 L2066 L2067 L2068 L2069 L2070 L2071 L2072 L2073 L2074 L2075 L2076 L2077 L2078 L2079 L2080 L2081 L2082 L2083 L2084 L2085 L2086 L2087 L2088 L2089 L2090 L2091 L2092 L2093 L2094 L2095 L2096 L2097 L2098 L2099 L2100 L2101 L2102 L2103 L2104 L2105 L2106 L2107 L2108 L2109 L2110 L2111 L2112 L2113 L2114 L2115 L2116 L2117 L2118 L2119 L2120 L2121 L2122 L2123 L2124 L2125 L2126 L2127 L2128 L2129 L2130 L2131 L2132 L2133 L2134 L2135 L2136 L2137 L2138 L2139 L21					

170	2	R020 R021	110009030884-P	47K 1%	RES 47K 1/16W 1% 0402	YAGEO AMERICA	RC0402FR-0747KL
171	2	R023 R026	11001509016-R	10K	RES 10K 23W 5% 1206	PANASONIC	ERJ-PB0103Y
172	9	RA1 RA2 RA3 RA4 RA5 RA11 RA12 RA13 RA14	110009030021-E	23K	RES ARRAY 23K 310W 5% 0402	PANASONIC-ECG	EXB-2BV2301X
173	3	RA6 RA7 RA10	110009030002-R	0E	RES ARRAY 0E 310W 0402	PANASONIC-ECG	EXB-N1V0000X
174	2	RA8 RA9	110009030004-R	0E	RES ARRAY 0E 0402	PANASONIC-ECG	EXB-2HV0000V
175	1	RA16	110009030016-R	1K	RES ARRAY 1K 310W 5% 0402	PANASONIC-ECG	EXB-2BV1021X
176	1	SW1	130006E-11	50A5SPM3QE	SWITCH SLIDE SPST TH	E-SWITCH	50A5SP102-GE
177	8	SW2 SW4 SW5 SW6 SW7 SW8 SW9 SW10	130014060032-R	B3SL-1022P	TACTILE SWITCH SPST-NO SMD	OMRON	B3SL-1022P
178	1	SW3	130011110008-R	GDWB4504	SWITCH DIP SLIDE SMD	TE CONNECTIVITY	GDWB4504
179	5	SW11 SW12 SW13 SW14 SW15	13001400014-R	SDAU1H1SBD	IC SINGLE INVERTER GATE SC7W-5	OSK COMPONENTS	SDAU1H1SBD
180	1	U1	140014E-11	66AKG02	IC ARM CORTX5 AND DSP 32 BIT MICROPROCESSOR BGA625	TEXAS INSTRUMENTS	66AKG02
181	1	U2	142010120003-R	TPS380833DBVR	IC VOLT SUPERVISOR 3.3V SOT23-6	TEXAS INSTRUMENTS	TPS3808-33DBVR
182	3	U3 U73 U109	140111E-11	TPD45012DRVR	IC 4CH ESD SOLUTION S086	TEXAS INSTRUMENTS	TPD45012DRVR
183	8	U4 U47 U86 U89 U84 U86 U101 U144	141009070007-R	SN74LVC1604DCKR	IC SINGLE INVERTER GATE SC7W-5	TEXAS INSTRUMENTS	SN74LVC1604DCKR
184	9	U5 U36 U58 U73 U88 U91 U97 U106 U127	141009060026-R	SN74LVC1G08DBVRE4	IC SINGLE 2-INPUT POSITIVE AND GATE SOT23-5	TEXAS INSTRUMENTS	SN74LVC1G08DBVRE4
185	1	U6	142014100007-R	TPS650060R1ET	IC STEP-DOWN CONVERTER WITH DUAL LDO AND SVS WQFN16	TEXAS INSTRUMENTS	TPS650060R1ET
186	1	U7	142014110002-R	LM22675MR-ADJ/NOPB	IC 1A BUCK VOLTAGE REGULATOR S0IC-8	TEXAS INSTRUMENTS	LM22675MR-ADJ/NOPB
187	1	U8	142009080012-R	TPS79601DBR	IC ADJUSTABLE LDO VOLTAGE REGULATOR HIGH PSRR 1A SON8	TEXAS INSTRUMENTS	TPS79601DBR
188	1	U9	141015020025-R	MT48LC4M16A2B4-6AJ	IC SYNCHRONOUS DRAM FBGA54	MICRON	MT48LC4M16A2B4-6AJ
189	1	U10	142015020003-R	LP3905IM5-3.0/NOPB	IC MICROPOWER LOW NOISE LDO CMOS VOLTAGE REGULATORS 3V SOT23-5	TEXAS INSTRUMENTS	LP3905IM5-3.0/NOPB
190	1	U11	14111410004-R	IS25CD010-INLE	IC FLASH 1MBIT 10MHZ S0IC-8	ISSI	IS25CD010-INLE
191	1	U12	142011E-11	XC2C64A-5VQ4C	IC COOLRUNNER II CPLD TQFP94	XILINX	XC2C64A-5VQ4C
192	1	U13	14101050010-R	MAX321CPWR	IC LINE DRIVER/RECEIVER SINGLE-CHANNEL RS-232 TSSOP16	TEXAS INSTRUMENTS	MAX321CPWR
193	3	U14 U16 U195	141013120007-R	TCA951TDGKR	IC 2-CHANNEL I2C BUS REPEATER VSSOP8	TEXAS INSTRUMENTS	TCA951TDGKR
194	1	U17	141214100001-R	AM1802BZWTD3	IC PROCESSOR SITARA ARM 300MHZ BGA361	TEXAS INSTRUMENTS	AM1802BZWTD3
195	1	U18	TPS462080CY		IC BUCK SYNCHRONOUS STEP-DOWN SWIFT CONVERTER QFN14	TEXAS INSTRUMENTS	TPS462080CY
196	1	U20	141214090006-R	TM4C129XNCZAD3	IC TIVA C SERIES MICROCONTROLLER NFBGA212	TEXAS INSTRUMENTS	TM4C129XNCZAD3
197	1	U21	130011030004-R	32768KHZ	OSC 32.768KHZ 3.3V SMD	ABRACON	ABRACON-32.768KHZ-LRT
198	1	U22	142014070002-R	CSDB933QJ3D	IC SYNCHRONOUS BUCK NEXFET POWER BLOCK SON8	TEXAS INSTRUMENTS	CSDB933QJ3D
199	3	U27 U126 U130	14100903021-R	SN74LVC1G12DCKR	IC SINGLE 3-INPUT POSITIVE AND GATE SC7W-6	TEXAS INSTRUMENTS	SN74LVC1G12DCKR
200	6	U24 U33 U35 U41 U115 U132	143011040001-R	SN74AVC47245RHLL	IC BUS TRANSCEIVER 8-BIT DUAL-SUPPLY QFN24	TEXAS INSTRUMENTS	SN74AVC47245RHLL
201	1	U25	142014110008-R	LP2996AAB/NOPB	IC DDR TERMINATION REGULATOR PSOP8	TEXAS INSTRUMENTS	LP2996AAB/NOPB
202	5	U27 U39 U45 U49 U52	141114100002-P	MT41K512M0RH-125-E	IC 512MB DDR SDRAM FBGA76	MICRON	MT41K512M0RH-125-E
203	1	U29	141114100001-R	134MC16-6-S10	IC NAND FLASH EMMC-16GB FBGA153	KINGSTON	EMMC-16-G100
204	8	U30 U31 U64 U69 U125 U126 U128 U136	141009030111-R	SN74AVC4T245PW	IC 4-BIT DUAL SUPPLY BUS TRANSCEIVER TSSOP16	TEXAS INSTRUMENTS	SN74AVC4T245PW
205	1	U32	TPS69118		IC POWER MANAGEMENT BGA98	TEXAS INSTRUMENTS	TPS69118
206	5	U34 U39 U122 U135 U137	141009030109-R	SN74AVC1T45DBVR	IC SINGLE-BIT DUAL-SUPPLY BUS TRANSCEIVER SOT23-6	TEXAS INSTRUMENTS	SN74AVC1T45DBVR
207	3	U37 U133 U134	14013110004-R	TS3L110PWG4	IC CMOB SPOT SWITCH 84-CHANNEL MULTIPLEXER/DEMULTIPLEXER TSSOP16	TEXAS INSTRUMENTS	TS3L110PWG4
208	1	U38	141114100006-R	AT24CM01	IC SERIAL EEPROM TSSOP8	ATMEL	AT24CM01-XHD-T
209	1	U40	141114120003-R	N25Q128A13ESF40F	IC 128MB NOR FLASH MEMORY SOP2-16	MICRON	N25Q128A13ESF40F
210	5	U42 U43 U44 U46 U48	141011080019-R	INA226AIDGSR	IC BI-DIRECTIONAL CURRENT MONITOR MSOP10	TEXAS INSTRUMENTS	INA226AIDGSR
211	1	U50	142014110007-R	TLV77085DQNT	IC LDO LINEAR REGULATOR 200mA 2V SMD	TEXAS INSTRUMENTS	TLV77085DQNT
212	1	U51	141013080010-R	TCA9553RTWR	IC I/O EXPANDER I2C BUS 16-BIT WQFN24	TEXAS INSTRUMENTS	TCA9553RTWR
213	1	U53	142009E-11	TPS61081DRCT	IC STEP-UP 1.3A DC/DC CONVERTER SON10	TEXAS INSTRUMENTS	TPS61081DRCT
214	2	U54 U57	142014060011-R	TPS2051BD	IC POWER DISTRIBUTION SWITCH S0IC-8	TEXAS INSTRUMENTS	TPS2051BD
215	1	U56	140114090011-R	CS2000CP-CZZ	IC FRACTIONAL-N CLOCK SYNTHESIZER MSOP10	CIRRUS LOGIC	CS2000CP-CZZ
216	1	U60	13001410017-R	20.000MHZ	OSC 20.000MHZ SMD	RAKON	E6718LF
217	1	U62	14101410002-R	CDC16C08V28GZT	IC CLOCK GENERATOR VQFN48	TEXAS INSTRUMENTS	CDC16C08V28GZT
218	7	U64 U76 U124 U129 U130 U146 U147	141009030261-R	SN74AVC1T245RWR	IC DUAL-BIT DUAL SUPPLY BUS TRANSCEIVER QFN10	TEXAS INSTRUMENTS	SN74AVC1T245RWR
219	1	U67	143009030062-R	SN74AVCB164245VR	IC 16-BIT DUAL-SUPPLY BUS TRANSCEIVER TVSOP48	TEXAS INSTRUMENTS	SN74AVCB164245VR
220	1	U72	141114090005-R	S25FL512SAGMF011	IC 512MBIT EEPROM S0IC16	SPANSION	S25FL512SAGMF011
221	1	U74	141015070007-R	CP2105-F01-GM	IC SINGLE CHIP USB TO DUAL UART BRIDGE QFN24	SILICON LABS	CP2105-F01-GM
222	1	U75	13001410012-R	12.288MHZ	OSC 12.288MHZ SMD	CTS	C38-V-IC-12M2880
223	1	U78	142015020006-R	REF5025AIDGKT	IC PRECISION VOLTAGE REFERENCE 2.5V MSOP8	TEXAS INSTRUMENTS	REF5025AIDGKT
224	1	U79	141014100017-R	DAC8550IBDGKT	IC DAC 16-BIT ULTRA-LOW GLITCH OUTPUT VOLTAGE VSSOP8	TEXAS INSTRUMENTS	DAC8550IBDGKT
225	2	U81 U82	141014060009-R	SN74LVC3244ZKE8	IC 32-BIT BUFFER DRIVER WITH 3-STATE OUTPUTS LFBGA96	TEXAS INSTRUMENTS	SN74LVC3244ZKE8
226	1	U87	141114110001-R	MT29F22G-BABA1AWP-F	IC FLASH MEMORY 2-GBIT 1GBIT 3.3V TSO48	MICRON	MT29F22G-BABA1AWP-F
227	3	U88 U131 U140	141014060023-R	SN74LVC1G07DCK	IC SINGLE BUFFER/DRIVER SC-70	TEXAS INSTRUMENTS	SN74LVC1G07DCKR
228	2	U90 U94	141014100018-R	TPD4E05106-Q1	IC 4-CHANNEL PROTECTION SOLUTION FOR SUPER-SPEED USON10	TEXAS INSTRUMENTS	TPD4E05106-Q1
229	1	U92	143014060002-R	KS25001RKNCA	IC ETHERNET TRANSCEIVER 10/100/1000 Mbps QFN48	MICREL	KS25001RKNCA
230	1	U93	141214070001-R	MAX3232ECD	IC MULTICHANNEL RS-232 LINE DRIVER/RECEIVER S0IC16	TEXAS INSTRUMENTS	MAX3232CD
231	1	U96	143010600003-R	TLV320AIC3106RGZT	IC LOW-POWER STEREO AUDIO CODEC VQFN48	TEXAS INSTRUMENTS	TLV320AIC3106RGZT
232	2	U98 U100	141010100003-R	ISO1090DUB	IC ISOLATED CAN TRANSCEIVER S0P8	TEXAS INSTRUMENTS	ISO1090DUB
233	1	U102	14101E-11	S08G22ACNU	IC HDMI TRANSMITTER QFN72	SILICON IMAGE	S08G22ACNU
234	1	U103	142014060014-R	TPS7171DCKR	IC LINEAR REGULATOR LDO 150mA SC70-5	TEXAS INSTRUMENTS	TPS7171DCKR
235	2	U104 U105	140114070012-R	PSM712	IC TVS ARRAY DATALINE 600W 43V SOT23	PROYEK	PSM712
236	1	U107	140110600007-R	TPD2E001DRLR	IC ESD-PROTECTION ARRAY FOR HIGH SPEED DATA INTERFACES SOT-5	TEXAS INSTRUMENTS	TPD2E001DRLR
237	1	U108	140111E-11	TPD125010PWR	IC HDMI COMPANION CHIP TSSOP24	TEXAS INSTRUMENTS	TPD125010PWR
238	1	U111	140111E-11	TPD6E001RSE	IC ESD ESD-PROTECTION ARRAY QFN10	TEXAS INSTRUMENTS	TPD6E001RSE
239	1	U112	141009070003-R	TMP102AIDRLT	IC DIGITAL TEMPERATURE SENSOR WITH SERIAL INTERFACE SOT563-6	TEXAS INSTRUMENTS	TMP102AIDRLT
240	2	U116 U141	14201420016-R	TPS54428ERSAR	IC SYNCHRONOUS STEP-DOWN SWIFT 4.5A QFN16	TEXAS INSTRUMENTS	TPS54428ERSAR
241	2	U118 U119	142014090002-R	R1Z-3305-HP	IC RIZ DC/DC CONVERTER SMD6	RECOM	R1Z-3305-HP
242	1	U123	142010200003-R	TPS22907YZTR	IC LOW INPUT VOLTAGE LOAD SWITCH WITH ULTRA-LOW Ron DSBGA4	TEXAS INSTRUMENTS	TPS22907YZTR
243	1	U139	141015040002-R	SN74CBT1G125DBVR	IC SWITCH BUS FET HIGH SPEED WITH LEVEL SHIFTER SOT23-5	TEXAS INSTRUMENTS	SN74CBT1G125DBVR
244	1	U142	141011100005-R	TXS0108EPWR	IC TRANSLATOR BIDIRECTIONAL VOLTAGE-LEVEL SHIFTER TSSOP20	TEXAS INSTRUMENTS	TXS0108EPWR
245	1	U149	142015100007-R	LM5969MM	IC CONTROLLER HIGH-SIDE PROTECTION VSSOP10	TEXAS INSTRUMENTS	LM5969MM/NOPB
246	2	Y1 Y4	130009030095-P	32.768KHZ	CRY 32.768KHZ SMD	CRYSTAL UNITS	FC-135 32.7680KA-A3
247	2	Y2 Y6	130011110059-R	24MHZ	CRY 24MHZ 18pf SMD	ABRACON	ABRM9G-24.000MHZ-18-D2V-T
248	1	Y3	130014110014-R	25.000MHZ	CRY 25.000MHZ 8PF SMD	KYOCERA	CK3225B2500D0FFCC
249	1	Y5	130014070003-R	25.782MHZ	CRY 22.5782MHZ 18pf SMD	KYOCERA	CK3225B257820H0PQCC
250	1	Y7	130014100100-R	12.288MHZ	CRY 12.288MHZ SMD	CTS	AT5122SM-1
251	1	Y8	130014120021-R	24.000MHZ	CRY 24MHZ SMD	NDK	NX3225SA-24.000MHZ-STD-CSR-1
252	1	Y9	130014070029-R	25MHz	CRY 25MHz SMD	CTS	44G-2025SM0000
253	12				Screw #4-40 5/16 inch long zinc-Phillips	BF Fastener	PMS 440 002 PH
254	12				Screw #4-40 1/4 inch long zinc-Phillips	BF Fastener	PMS 440 0025 PH
255	12				Standoff alum female/female 4-40 1/4 inch long	Keystone	3482
256	4				M3 x 25mm Screw		
257	4				M3 nut		
258	12				Rubber Feet #4 screw hole size	Keystone	720
259	8	TP92 TP129 TP202 TP104 TP51 TP201 TP90 TP53			TEST POINT PC MINI 0407 WHITE	Keystone	5002
260	4	J46 J10 J15 J45			SHUNT JUMPER Pitch 2.54mm		

IMPORTANT NOTICE FOR TI REFERENCE DESIGNS

Texas Instruments Incorporated ("TI") reference designs are solely intended to assist designers ("Buyers") who are developing systems that incorporate TI semiconductor products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products.

TI reference designs have been created using standard laboratory conditions and engineering practices. **TI has not conducted any testing other than that specifically described in the published documentation for a particular reference design.** TI may make corrections, enhancements, improvements and other changes to its reference designs.

Buyers are authorized to use TI reference designs with the TI component(s) identified in each particular reference design and to modify the reference design in the development of their end products. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

TI REFERENCE DESIGNS ARE PROVIDED "AS IS". TI MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. TI DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO TI REFERENCE DESIGNS OR USE THEREOF. TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY BUYERS AGAINST ANY THIRD PARTY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON A COMBINATION OF COMPONENTS PROVIDED IN A TI REFERENCE DESIGN. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES, HOWEVER CAUSED, ON ANY THEORY OF LIABILITY AND WHETHER OR NOT TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, ARISING IN ANY WAY OUT OF TI REFERENCE DESIGNS OR BUYER'S USE OF TI REFERENCE DESIGNS.

TI reserves the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI's terms and conditions of sale of semiconductor products. Testing and other quality control techniques for TI components are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers' products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers' products and applications, Buyers should provide adequate design and operating safeguards.

Reproduction of significant portions of TI information in TI data books, data sheets or reference designs is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards that anticipate dangerous failures, monitor failures and their consequences, lessen the likelihood of dangerous failures and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in Buyer's safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed an agreement specifically governing such use.

Only those TI components that TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components that have **not** been so designated is solely at Buyer's risk, and Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.