

ASM_BOM



Mistral Solutions [P] Ltd.
 #40 Adarsh regent, 100 Feet Ring Road, Domlur Extension
 Bangalore 560 071, Ph : +91-80-30912600, Fax : +91-80-25356444

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SCH REV	D

Item Number	Quantity	Mistral Part No	Part Reference	Value	Description	Mfr_part_number	Mfr_name	Distributor part number	Distributor name	PCB Footprint	Comments
1	1	160010500009	ACC1	C9661	SOCKET BGA 0.80MM PITCH BGASKT684	C9661	IRONWOOD ELECTRONICS	NA	NA	BGASKT684_31-49_910X910	U27 Direct mount
2	2	120009030611-R	C1 C12	100uF_10V	CAP TANTALUM 100uF 10V 20% ESR 400mE B3528	TPSB107M010R0400	AVX CORPORATION	478-5231-1-ND	DIGIKEY	CAPT3528B	
3	171	120009030085	C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C40 C41 C42 C43 C44 C45 C46 C47 C48 C49 C50 C51 C52 C53 C54 C55 C56 C57 C58 C59 C60 C61 C62 C63 C64 C65 C66 C67 C68 C69 C70 C71 C72 C73 C74 C75 C76 C77 C78 C79 C80 C81 C82 C83 C84 C85 C86 C87 C88 C89 C90 C91 C92 C93 C94 C95 C96 C97 C98 C99 C100 C101 C102 C103 C104 C105 C106 C107 C108 C109 C110 C111 C112 C113 C114 C115 C116 C117 C118 C119 C120 C121 C122 C123 C124 C125 C126 C127 C128 C129 C130 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 C158 C159 C160 C161 C162 C163 C164 C165 C166 C167 C168 C169 C170 C171 C172 C173 C174 C175 C176 C177 C178 C179 C180 C181 C182 C183 C184 C185 C186 C187 C188 C189 C190 C191 C192 C193 C194 C195 C196 C197 C198 C199 C200 C201 C202 C203 C204 C205 C206 C207 C208 C209 C210 C211 C212 C213 C214 C215 C216 C217 C218 C219 C220 C221 C222 C223 C224 C225 C226 C227 C228 C229 C230 C231 C232 C233 C234 C235 C236 C237 C238 C239 C240 C241 C242 C243 C244 C245 C246 C247 C248 C249 C250 C251 C252 C253 C254 C255 C256 C257 C258 C259 C260 C261 C262 C263 C264 C265 C266 C267 C268 C269 C270 C271 C272 C273 C274 C275 C276 C277 C278 C279 C280 C281 C282 C283 C284 C285 C286 C287 C288 C289 C290 C291 C292 C293 C294 C295 C296 C297 C298 C299 C300 C301 C302 C303 C304 C305 C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318 C319 C320 C321 C322 C323 C324 C325 C326 C327 C328 C329 C330 C331 C332 C333 C334 C335 C336 C337 C338 C339 C340 C341 C342 C343 C344 C345 C346 C347 C348 C349 C350 C351 C352 C353 C354 C355 C356 C357 C358 C359 C360 C361 C362 C363 C364 C365 C366 C367 C368 C369 C370 C371 C372 C373 C374 C375 C376 C377 C378 C379 C380 C381 C382 C383 C384 C385 C386 C387 C388 C389 C390 C391 C392 C393 C394 C395 C396 C397 C398 C399 C400 C401 C402 C403 C404 C405 C406 C407 C408 C409 C410 C411 C412 C413 C414 C415 C416 C417 C418 C419 C420 C421 C422 C423 C424 C425	0.1uF	CAP CERAMIC 0.1uF 25V -20% TO +80 Y5V 0402	GRM155F51E104ZA01D	MURATA	490-3271-1-ND	DIGIKEY	CAP0402	Quantity increased by 4
4	2	120009030082-R	C5 C8	0.1uF	CAP CERAMIC 0.1uF 25V 10% X7R 0603	ECJ-1VB1E104K	PANASONIC-ECG	PCC2277CT-ND	DIGIKEY	CAP0603	
5	25	120009050022-R	C6 C60 C67 C83 C100 C111 C117 C118 C128 C151 C208 C212 C218 C223 C303 C315 C316 C317 C325 C329 C336 C338 C346 C869 C873	10uF	CAP CERAMIC 10uF 10V 20% X5R 0603	ECJ-1VB1A106M	PANASONIC-ECG	PCC2479CT-ND	DIGIKEY	CAP0603	
6	2	120009030047-R	C15 C16	0.047uF	CAP CERAMIC 0.047uF 16V 10% X5R 0402	0402YD473KAT2A	AVX CORPORATION	478-1125-1-ND	DIGIKEY	CAP0402	
7	4	120009030191-R	C18 C130 C149 C341	10uF	CAP CERAMIC 10uF 25V 20% X7R 1210	C3225X7R1E106M	TDK CORPORATION	445-1434-1-ND	DIGIKEY	CAP1210	
8	5	120011010017-R	C19 C20 C21 C30 C141	1uF	CAP CERAMIC 1uF 25V 10% X7R 0603	GRM188R71E105KA12D	MURATA	490-5307-1-ND	DIGIKEY	CAP0603	
9	1	120009080019-R	C22	33uF_6.3V	CAP TANTALUM 33uF 6.3V 20% ESR 200mE A3216	TCJA336M006R0200	AVX CORPORATION	478-3456-1-ND	DIGIKEY	CAPT3216A	
10	9	120009030712	C23 C162 C170 C177 C191 C196 C197 C211 C484	33uF_6.3V	CAP TANTALUM 33uF 6.3V 20% A3216	TCA0J336M8R	ROHM	511-1451-1-ND	DIGIKEY	CAPT3216A	
11	2	120009030069	C26 C135	0.1uF	CAP CERAMIC 0.1uF 25V 10% X5R 0402	TMK105BJ104K-F	TAIYO YUDEN	587-1456-1-ND	DIGIKEY	CAP0402	
12	7	120009030741-R	C29 C46 C47 C77 C79 C103 C104	47uF_20V	CAP TANTALUM 47uF 20V 10% ESR 200mE D7343	TPSD476K020R0200	AVX CORPORATION	581-TPSD476K020R0200	MOUSER	CAPT7343D	
13	1	120009030207	C31	10uF	CAP CERAMIC 10uF 25V 20% X5R 1210	TMK325BJ106MM-T	TAIYO YUDEN	587-1374-1-ND	DIGIKEY	CAP1210	
14	11	120009030281-R	C33 C39 C44 C71 C125 C133 C290 C306 C314 C326 C407	2.2uF	CAP CERAMIC 2.2uF 6.3V 20% X5R 0402	ECJ-0EBOJ225M	PANASONIC-ECG	PCC2421CT-ND	DIGIKEY	CAP0402	
15	6	120010020016-R	C34 C35 C120 C121 C143 C144	22uF	CAP CERAMIC 22uF 10V 20% X5R 0805	ECJ-2FB1A226M	PANASONIC-ECG	PCC2480CT-ND	DIGIKEY	CAP0805	
16	2	120010060016-R	C40 C138	330uF_2V	CAP POLMER 330uF 2V 20% ESR 12mE X7343	EEFCX0D331XR	PANASONIC-ECG	NA	NA	CAPT7343CX	
17	15	120009030244-R	C41 C43 C74 C88 C96 C99 C105 C136 C148 C184 C255 C258 C288 C295 C826	1nF	CAP CERAMIC 1nF 50V 5% NP0 0402	04025A102JAT2A	AVX CORPORATION	NA	NA	CAP0402	
18	4	120009030158	C48 C89 C93 C426	100pF	CAP CERAMIC 100pF 50V 5% NP0 0402	GRM1555C1H101JZ01D	MURATA	490-3458-1-ND	DIGIKEY	CAP0402	
19	9	120009030424-R	C50 C51 C122 C123 C124 C300 C305 C319 C324	4.7uF	CAP CERAMIC 4.7uF 25V 10% X5R 1206	12063D475KAT2A	AVX CORPORATION	478-1570-1-ND	DIGIKEY	CAP1206	
20	4	120009030205-R	C52 C54 C92 C102	10uF	CAP CERAMIC 10uF 16V 10% X5R 0805	GRM21BR61C106KE15L	MURATA	490-3886-1-ND	DIGIKEY		805
21	31	120009030264	C53 C61 C214 C216 C217 C222 C224 C225 C226 C266 C271 C273 C275 C277 C296 C297 C298 C357 C363 C376 C377 C379 C383 C387 C432 C435 C449 C866 C868 C870 C872	1uF	CAP CERAMIC 1uF 10V 10% X5R 0402	GRM155R61A105KE15D	MURATA	490-3890-1-ND	DIGIKEY	CAP0402	
22	1	120009080031	C64	1uF_16V	CAP TANTALUM 1uF 16V 20% ESR 8E A3216	ECSH1CY105R	PANASONIC-ECG	PCT3105CT-ND	DIGIKEY	CAPT3216A	
23	6	120009030171-R	C72 C134 C137 C145 C156 C342	100uF	CAP CERAMIC 100uF 16V +80% -20% Y5V 2220	C5750Y5V1C107Z	TDK CORPORATION	445-3485-1-ND	DIGIKEY	CAP2220	
24	1	120011060016-R	C73	10uF	CAP CERAMIC 10uF 25V 10% X5R 1210	GRM32DR61E106KA12L	MURATA	490-1878-1-ND	DIGIKEY		1210
25	2	120009030327-R	C87 C94	22pF	CAP CERAMIC 22pF 50V 5% NP0 0402	C0402C220J5GACTU	KEMET	399-1015-1-ND	DIGIKEY	CAP0402	
26	1	120009030632	C127	10uF_16V	CAP TANTALUM 10uF 16V 20% ESR 3E A3216	T49A4106M016AT	KEMET	399-3105-1-ND	DIGIKEY	CAPT3216A	
27	1	120009030637-R	C140	10uF_20V	CAP TANTALUM 10uF 20V 10% ESR 3E B3528	T491B106K020AT	KEMET	80-T491B106K020AT	MOUSER	CAPT3528B	
28	2	120010020013-R	C154 C155	22uF	CAP CERAMIC 22uF 4V 20% 0603	AMK107BJ226MA-T	TAIYO YUDEN	587-2085-1-ND	DIGIKEY	CAP0603	
29	2	120010030025	C159 C163	4.7uF	CAP CERAMIC 4.7uF 10V 10% X5R 0603	LMK107BJ475KA-T	TAIYO YUDEN	587-1441-1-ND	DIGIKEY	CAP0603	

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30	1	120009030040-R	C161	0.033uF	CAP CERAMIC 0.033uF 16V 10% X5R 0402	0402YD333KAT2A	AVX CORPORATION	478-1123-1-ND	DIGIKEY	CAP0402	
31	7	120009030032-R	C164 C165 C166 C167 C352 C353 C355	0.01uF	CAP CERAMIC 0.01uF 16V 10% X7R 0402	ECJ-0EB1C103K	PANASONIC-ECG	PCC103B0CT-ND	DIGIKEY	CAP0402	
32	107	120010040004-R	C172 C175 C180 C193 C195 C209 C213 C238 C239 C240 C348 C349 C351 C358 C361 C362 C367 C369 C370 C386 C389 C391 C394 C398 C401 C403 C411 C413 C417 C423 C429 C433 C436 C438 C439 C440 C442 C446 C448 C461 C464 C470 C473 C481 C482 C486 C487 C491 C492 C495	0.1uF	CAP CERAMIC 0.1uF 10V 20% X5R 0201	GRM033R61A104ME15D	MURATA	490-5405-1-ND	DIGIKEY	CAP0201	2 capacitors removed in REVD.Quntrity decreased by 2
33	51	120009030253	C172 C175 C180 C193 C195 C209 C213 C238 C239 C240 C348 C349 C351 C358 C361 C362 C367 C369 C370 C386 C389 C391 C394 C398 C401 C403 C411 C413 C417 C423 C429 C433 C436 C438 C439 C440 C442 C446 C448 C461 C464 C470 C473 C481 C482 C486 C487 C491 C492 C495	1nF	CAP CERAMIC 1nF 16V 10% X7R 0201	GRM033R71C102KD01D	MURATA	490-1261-1-ND	DIGIKEY	CAP0201	5 capacitors removed in REVD.Quantity decreased by 5
34	4	120009030241-R	C176 C183 C198 C205	18pF	CAP CERAMIC 18pF 50V 5% NPO 0402	04025A180JAT2A	AVX CORPORATION	478-1073-1-ND	DIGIKEY	CAP0402	
35	2	120009030189-R	C185 C194	10pF	CAP CERAMIC 10pF 50V 0.5% NPO 0402	C1005C0G1H100D	TDK CORPORATION	445-1235-1-ND	DIGIKEY	CAP0402	
36	4	120011010014-R	C188 C189 C857 C861	22pF	CAP CERAMIC 22pF 16V 5% C0G 0402	GRM0225C1C220JD05D	MURATA	490-4526-1-ND	DIGIKEY	CAP0402	Alternate MFR part no 04023A220JAT2A
37	2	120009030344-R	C199 C201	270pF	CAP CERAMIC 270pF 50V 10% X7R 0402	04025C271KAT2A	AVX CORPORATION	478-1094-1-ND	DIGIKEY	CAP0402	
38	4	120009030645-R	C204 C220 C227 C270	10uF 6.3V	CAP TANTALUM 10uF 6.3V 10% ESR 4E A3216	T491A106K006AT	KEMET	399-1551-1-ND	DIGIKEY	CAPT3216A	
39	111	120010080030-R	C289 C293 C297 C311 C316 C319 C320 C321 C322 C323 C624 C625 C626 C627 C628 C629 C630 C631 C632 C633 C634 C635 C636 C637 C638 C639 C640 C641 C642 C643 C644 C645 C646 C647 C648 C649 C650 C651 C652 C653 C654 C655 C656 C657 C658 C659 C660 C661 C662 C663 C664 C665 C666 C667 C668 C669 C670 C671 C672 C708 C709 C710 C711 C712 C713 C714 C715 C716 C717 C718 C719 C720 C721 C722 C723 C724 C725 C726 C727 C728 C729 C730 C731 C732 C733 C734 C735 C736 C737 C738 C739 C740 C741 C742 C743 C744 C745 C746 C747 C748 C755 C756 C757 C758 C759 C760 C829 C830 C831 C832	0.1uF	CAP CERAMIC 0.1uF 10V 10% X5R 0201	GRM033R61A104KE15D	MURATA	GRM033R61A104KE15D-ND	DIGIKEY	CAP0201	
40	1	120009030628	C267	10uF 10V	CAP TANTALUM 10uF 10V 20% ESR 4E A3216	T491A106M010AT	KEMET	399-1564-2-ND	DIGIKEY	CAPT3216A	
41	2	120009030266-R	C280 C281	1uF	CAP CERAMIC 1uF 10V 10% X5R 0603	0603ZD105KAT2A	AVX CORPORATION	478-1251-1-ND	DIGIKEY	CAP0603	
42	18	120009030074-R	C283 C284 C665 C666 C667 C668 C669 C670 C671 C672 C749 C750 C751 C761 C762 C763 C764 C765	0.1uF	CAP CERAMIC 0.1uF 10V -20% TO +80% Y5V 0402	0402ZG104ZAT2A	AVX CORPORATION	0402ZG104ZAT2A-ND	DIGIKEY	CAP0402	
43	1	120009030375	C292	330pF	CAP CERAMIC 330pF 50V 5% NPO 0402	GRM1555C1H331JA01D	MURATA	490-1295-1-ND	DIGIKEY	CAP0402	
44	1	120009030367-R	C294	3300pF	CAP CERAMIC 3300pF 50V 10% X7R 0402	04025C332KAT2A	AVX CORPORATION	478-1107-1-ND	DIGIKEY	CAP0402	
45	1	120009030098-R	C301	0.22uF	CAP CERAMIC 0.22uF 16V 10% X5R 0402	EMK105BJ224KV-F	TAIYO YUDEN	587-1452-1-ND	DIGIKEY	CAP0402	
46	6	120009030172	C321 C322 C330 C335 C339 C345	100uF	CAP CERAMIC 100uF10V 20% X5R 1210	LMK325BJ107MM-T	TAIYO YUDEN	587-1965-1-ND	DIGIKEY	CAP1210	
47	166	120009030073-R	C356 C454 C501 C502 C504 C505 C506 C509 C511 C514 C516 C517 C518 C519 C523 C524 C526 C527 C528 C529 C530 C532 C540 C543 C544 C545 C546 C548 C550 C551 C555 C561 C562 C563 C564 C565 C566 C567 C568 C569 C570 C571 C572 C573 C574 C575 C576 C577 C578 C579 C580 C581 C582 C583 C584 C585 C586 C587 C588 C589 C590 C591 C592 C593 C594 C595 C596 C597 C598 C599 C600 C601 C602 C603 C604 C605 C606 C607 C608 C609 C610 C611 C612 C613 C614 C616 C617 C618 C619 C620 C621 C622 C623 C624 C625 C626 C627 C628 C629 C630 C631 C632 C633 C634 C635 C636 C637 C638 C639 C640 C641 C642 C643 C644 C645 C646 C647 C648 C649 C650 C651 C652 C653 C654 C655 C656 C657 C658 C659 C660 C661 C662 C663 C664 C665 C666 C667 C668 C669 C670 C671 C672 C708 C709 C710 C711 C712 C713 C714 C715 C716 C717 C718 C719 C720 C721 C722 C723 C724 C725 C726 C727 C728 C729 C730 C731 C732 C733 C734 C735 C736 C737 C738 C739 C740 C741 C742 C743 C744 C745 C746 C747 C748 C755 C756 C757 C758 C759 C760 C829 C830 C831 C832	0.1uF	CAP CERAMIC 0.1uF 16V 10% X5R 0402	0402YD104KAT2A	AVX CORPORATION	478-1126-1-ND	DIGIKEY	CAP0402	
48	2	120009030084-R	C465 C472	0.1uF	CAP CERAMIC 0.1uF 6.3V 10% X5R 0201	GRM033R60J104KE19D	MURATA	490-3167-1-ND	DIGIKEY	CAP0201	
49	4	120009030265-R	C512 C513 C541 C542	1uF	CAP CERAMIC 1uF 6.3V 10% X5R 0402	ECJ-0EBQJ105K	PANASONIC-ECG	PCC2393CT-ND	DIGIKEY	CAP0402	
50	2	120009030713-R	C839 C840	4.7uF 10V	CAP TANTALUM 4.7uF 10V 10% ESR 4.5E A3216	B45196H2475K109	KEMET	495-2197-1-ND	DIGIKEY	CAPT3216A	
51	2	120009030651	C841 C842	150uF 10V	CAP TANTALUM 150uF 10V 20% ESR 25mE D7343	T520D157M010ASE025	KEMET	NA	NA	CAPT7343D	
52	2	120009080029-P	C846 C849	10uF 10V	CAP TANTALUM 10uF 10V 10% ESR 900mE A3216	TPSA106K010R0900	AVX CORPORATION	478-1751-1-ND	DIGIKEY	CAPT3216A	
53	1	130009030286-R	D1	SMCJ15CA	DIODE TVS 1500W 15V SMC	SMCJ15CA	LITTLE FUSE	SMCJ15CALFCT-ND	DIGIKEY	DIO_SMC	
54	1	130009030175-R	D2	B520C-13-F	DIODE SCHOTTKY 20V 5A SMC	B520C-13-F	DIODES INC	B520C-FDICT-ND	DIGIKEY	DIO_SMC	

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55	1	130010060001-R	F1	4A	FUSEBLOCK 4A SMD	0154004.DRT	LITTLE FUSE	F1309CT-ND	DIGIKEY	FUSEH2_250_380X20_0_SMD	
56	3	130009030794	FL1 FL2 FL3	600E	PASSIVE FILTER EMI 600E 0603	BLM18AG601SN1D	MURATA	490-1014-1-ND	DIGIKEY	EMIFIL_BLM18A_0603	
57	4	130009030778	FL4 FL5 FL6 FL9	220E	PASSIVE FILTER EMI 220E 2000mA 0805	BLM21PG221SN1D	MURATA	490-1054-1-ND	DIGIKEY	EMIFIL_BLM21P_0805	
58	1	130009070006	FL8	1KE	FERRITE BEAD 1KE 100MA 0603	BLM18AG102SN1D	MURATA	490-1015-1-ND	DIGIKEY	EMIFIL_BLM18A_0603	
59	1	150010050001	J1	CON_HDMI_19X1	CON RECEPTACLE HDMI TYPE A RT SMD	10029449-001RLF	FCI	609-1010-1-ND	DIGIKEY	CON_19X1_10029449-001RLF_S_R_S	
60	2	150009030725	J2 J3	CON_MUSB-AB_5_F	CON MINI USB-AB TYPE 5POS FEMALE RT SMD	56579-0576	MOLEX	WM17122CT-ND	DIGIKEY	CON_USBABS_56579-0576_S_R_S	
61	1	150009030334-R	J4	CON_PWRJACK3_RAPC712	CON POWER JACK 3POS 2.50MM MALE RT TH	RAPC712X	SWITCHCRAFT	SC237-ND	DIGIKEY	CON_PWRJACK3_RAPC712_P_R_T	
62	4	150010060002	J5 J6 J7 J8	CON_AUDIOJACK4_STX-3500-4N	CON STEREO JACK 4POS 3.5MM FEMALE RT SMD	STX-3500-4NTR	KYCON	NA	NA	CON_AVA4_STX-3500-4N_S_R_S	
63	1	150009030344-R	J9	CON_RCAJACK3_RCJ-014	CON RCA JACK 3POS FEMALE YELLOW RT TH	RCJ-014	CUI	CP-1403-ND	DIGIKEY	CON_RCAJACK4_RCJ-01X_S_R_T	
64	1	150009030646	J10	CON_PWR_4	CON POWER 4POS 5.08MM PITCH MALE RT TH	15-24-4441	MOLEX	WM6988-ND	DIGIKEY	CON_PWR4X1_15-24-4441-P_P_R_T	
65	1	150010060020	J11	HDR_10X2	CON HDR 10X2 1.27MM PITCH ST SMD	FR-110-03-G-D-LC-06	SAMTEC	NA	NA	HDR_10X2_50_S_S	
66	1	150011080038-R	J12	CON_7X1	CON 7X1 1.27MM PITCH MALE ST TH	67491-1040	MOLEX	NA	NA	1040_P_S_T	Mfr part number changed
67	1	150009030268	J13	HDR_5X2	CON HDR 5X2 2.54MM PITCH ST TH	10-89-1101	MOLEX	WM6810-ND	DIGIKEY	HDR_5X2_100_S_T	
68	2	150009080004	J14 J27	CON_RJ45-14_6605814-6	CON SD CARD & MMC+ PLUS 28POS SMD	6605814-6	TYCO ELECTRONICS	A99641-ND	DIGIKEY	CON_RJ45-14_6605814-	
69	1	150009030397	J15	CON_SDCARD_28_MHC-W21-601	CON PMC 30X2 0.50MM PITCH FEMALE ST SMD	MHC-W21-601	MORETHANALL			CON_SD_28_MHC-W21-601_R_S	
70	3	150009030606	J16 J17 J21	CON_PMC_30X2_F	CON PMC 30X2 0.50MM PITCH FEMALE ST SMD	OSH-030-01-L-D-A	SAMTEC			CON_PMC30X2_HOCD-030_S_S_S	
71	3	150010060004	J18 J19 J20	CON_PMC_60X2_F	CON PMC 60X2 0.50MM PITCH FEMALE ST SMD	OSH-060-01-L-D-A	SAMTEC	NA	NA	CON_PMC60X2_HOCD-060_S_S_S	
72	4	150009030246-R	J22 J23 J25 J26	HDR_2X1	CON HDR 2X1 2.54MM PITCH ST TH	22-03-2021	MOLEX	WM4000-ND	DIGIKEY	HDR_2X1_100_S_T	
73	1	150010060017	JC1	CON_5749181-1_CIRDIN4	CON CIRCULAR DIN 4 POS TH	5749181-1	ELECTRONICS	5749181-1-ND	DIGIKEY	CON_CIRDIN4_5749181_S_R_T	
74	1	150009030253	JP1	HDR_3X1	CON HDR 3X1 2.54MM PITCH ST TH	22-03-2031	MOLEX	WM4001-ND	DIGIKEY	HDR_3X1_100_S_T	
75	1	150010060018	JP2	HDR_7X2	CON HDR 7X2 2.54MM PITCH ST TH	2011-2X07G00SB	OUPHIN	NA	NA	HDR_7X2_100_S_T	
76	3	130010060024-R	L1 L6 L13	2.2uH	IND POWER 2.2uH 4.02A 20% SMD	7447789002	WURTH ELECTRONICS INC	732-1173-1-ND	DIGIKEY	IND_744779002_300X300_SMD	
77	1	130010060046-R	L2	2.7uH	IND POWER 2.7uH 8.8A 20% SMD	XPL7030-272MLC	COIL CRAFT	NA	NA	IND_XPL7030_295X295_SMD	
78	3	130010060006-R	L3 L4 L5	2.2uH	IND POWER 2.2uH 2.6A 30% SMD	VLCF5020T-2R2N2R6-3	TDK CORPORATION	445-4557-1-ND	DIGIKEY	IND_VLCF5020T_205X210_SMD	
79	1	130009050019-R	L7	4.7uH	IND POWER 4.7uH 8.5A 20% SMD	74477004	WURTH ELECTRONICS INC	732-1221-1-ND	DIGIKEY	IND_74477004_485X485_SMD	
80	1	130009030629-P	L8	4.7uH	IND HI-CURRENT 4.7uH 20% SMD	IHLP2525CZRZ4R7M01	VISHAY	70-IHLP2525CZRZ4R7M1	MOUSER	IND_IHLP-2525CZ_265x265_SMD	
81	4	130009030451	L17 L19 L20 L21	10E	IND FERRITE BEAD CHIP 10E SMD	HF70ACB201209	TDK CORPORATION	HF70ACB201209-T	MOUSER	IND_201209_90X60_SMD	
82	2	130010020001	L18 L22	4.7uH	IND POWER 4.7uH 30% 0.9A SMD	MIPF2016D4R7	FDK	NA	NA	IND_MIPF2016	
83	7	130009031013	LD1 LD2 LD3 LD4 LD5 LD8 LD11	LTST-C150GKT	DIODE LED GREEN 1206	LTST-C150GKT	LITEON	160-1169-1-ND	DIGIKEY	LED_1206	
84	2	150009030096-R	P1 P2	CON_DSUB_9_M	CON DSUB 9POS MALE RT TH	182-009-113R531	NORCOMP	182-09ME-ND	DIGIKEY	CON_DB9_182-009-113R531_P_R_T	
85	2	142010060026-R	Q1 Q2	FDS8812NZ	IC MOSFET N-CHANNEL SOIC8	FDS8812NZ	FAIRCHILD	FDS8812NZCT-ND	DIGIKEY	SOIC8	
86	1	142010060017	Q3	FDS6982	IC MOSFET N-CHANNEL DUAL SOIC8	FDS6982	FAIRCHILD	FDS6982CT-ND	DIGIKEY	SOIC8	
87	2	142010060018-R	Q4 Q5	CSD16406Q3	IC MOSFET N-CHANNEL QFN5	CSD16406Q3	INSTRUMENTS	296-24251-1-ND	DIGIKEY	QFN5_25-59_135x135	
88	82	110009030208-P	R1 R4 R27 R31 R32 R33 R54 R79 R122 R127 R132 R133 R140 R165 R168 R169 R171 R243 R253 R280 R282 R283 R285 R287 R301 R307 R313 R321 R327 R328 R329 R345 R353 R356 R357 R358 R359 R360 R361 R362 R363 R364 R365 R366 R368 R369 R370 R371 R373 R376 R377 R379 R383 R388 R397 R400 R421 R431 R432 R506 R517 R522 R527 R528 R530 R532 R534 R536 R538 R540 R546 R549 R551 R553 R555 R557 R559 R563 R575 R508 R398 R603	10K	RES 10K 1/16W 5% 0402	RC0402JR-0710KL	YAGEO AMERICA	311-10KJRCT-ND	DIGIKEY	RES0402	1 Quantity removed.Quantity increased by 2(3 resistors newly added)
89	2	110009030597	R2 R602	2K	RES 2K 1/10W 5% 0603	9C06031A2001JLHFT	YAGEO AMERICA	311-2.0KGCT-ND	DIGIKEY	RES0603	
90	1	110011090016-R	R36	0.008E_1%	RES 0.008E 3W 1% 3637	WSL36378L000FEA	VISHAY	WSL1-008CT-ND	DIGIKEY	RES3637	Part number changed
91	4	110010070062-R	R3 R11 R24 R484	0.001E_1%	RES 0.001E 4W 1% 2725	CSS 2725 0.001 1% R	STACKPOLE	CSS27250.0-ND	DIGIKEY	RES2725	
92	12	110009030177-R	R6 R8 R16 R66 R225 R390 R594 R595 R596 R597 R599 R601	100K	RES 100K 1/16W 5% 0402	ERJ-2GEJ104X	PANASONIC-ECG	P100KJCT-ND	DIGIKEY	RES0402	
93	9	110009030481-R	R12 R13 R14 R15 R48 R56 R58 R91 R98	20K	RES 20K 1/16W 5% 0402	ERJ-2GEJ203X	PANASONIC-ECG	P20KJTR-ND	DIGIKEY	RES0402	
94	115	110009030083	R17 R18 R19 R20 R35 R41 R44 R49 R78 R92 R93 R94 R95 R96 R101 R104 R106 R110 R111 R112 R113 R116 R119 R121 R123 R126 R131 R137 R143 R160 R173 R180 R181 R186 R187 R190 R193 R196 R197 R201 R206 R210 R213 R214 R216 R217 R218 R219 R224 R237 R239 R240 R245 R247 R249 R254 R256 R257 R262 R264 R270 R278 R291 R292 R293 R296 R299 R304 R305 R306 R316 R317 R318 R319 R322 R326 R341 R347 R349 R372 R374 R386 R387 R426 R462 R463 R464 R465 R466 R467 R468 R469 R470 R471 R472 R473 R474 R475 R476 R477 R500 R501 R503 R505 R507 R520 R521 R523 R586 R141 R146 R147 R188 R194	0E	RES 0E 1/16W 5% 0402	WR04X000_JT	WALSIN	NA	NA	RES0402	Quantity increased by 6

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Item Number	Quantity	Mistral Part No	Part Reference	Value	Description	Mfr_part_number	Mfr_name	Distributor_part_number	Distributor_name	PCB Footprint	Comments
95	4	110009030884-P	R22 R192 R200 R222	47K_1%	RES 47K 1/16W 1% 0402	RC0402FR-0747KL	YAGEO AMERICA	311-47.0KLRCT-	DIGIKEY	RES0402	
96	5	110009031717-R	R26 R81 R82 R83 R84	330E	RES 330E 1/10W 5% 0402	ERJ-2GEJ331X	PANASONIC-ECG	P330JCT-ND	DIGIKEY	RES0402	
97	6	110009030164-R	R28 R29 R230 R244 R252 R295	100E	RES 100E 1/16W 5% 0402	ERJ-2GEJ101X	PANASONIC-ECG	P100JCT-ND	DIGIKEY	RES0402	
98	4	110009030429-R	R34 R211 R215 R303	2.2K	RES 2.2K 1/16W 5% 0402	ERJ-2GEJ222X	PANASONIC-ECG	P2.2KJCT-ND	DIGIKEY	RES0402	
99	3	110009030504-R	R37 R102 R130	22.1K_1%	RES 22.1K 1/10W 1% 0603	9C06031A2212FKHFT	YAGEO AMERICA	311-22.1KHCT-	DIGIKEY	RES0603	
100	2	110009031143-R	R38 R47	80K	RES 80K 1/10W 5% 0603	ERJ-3GEYJ803V	PANASONIC-ECG	NA	NA	RES0603	
101	19	110009030046-R	R39 R43 R50 R53 R65 R68 R87 R99 R100 R108 R117 R129	0.01E_1%	RES 0.01E 1W 1% 2512	ERJ-M1WSF10MU	PANASONIC-ECG	P10MCT-ND	DIGIKEY	RES2512	
102	2	110009030358-R	R45 R55	169K_1%	RES 169K 1/16W 1% 0402	ERJ-2RKF1693X	PANASONIC-ECG	P169KJCT-	DIGIKEY	RES0402	
103	2	110009031036-R	R46 R97	6.98K_1%	RES 6.98K 1/16W 1% 0402	ERJ-2RNF6981V	PANASONIC-ECG	NA	NA	RES0402	
104	4	110009030193	R57 R74 R75 R76	10E	RES 10E 1/16W 5% 0402	9C04021A10R0JLHF3	YAGEO AMERICA	311-10JCT-	DIGIKEY	RES0402	
105	5	110009030599	R59 R69 R70 R258 R269	2K	RES 2K 1/16W 5% 0402	WR04X202_JT	WALSIN	NA	NA	RES0402	
106	1	110009030760-R	R73	39K_1%	RES 39K 1/10W 1% 0603	ERJ-3EKF3902V	PANASONIC-ECG	P39.0KHCT-541-	DIGIKEY	RES0603	
107	1	110009050016-P	R80	215K_1%	RES 215K 1/16W 1% 0402	CRCW0402215KFKED	VISHAY	215KJCT-ND	DIGIKEY	RES0402	
108	14	110011060042-R	R85 R89 R105 R124 R154 R155 R156 R198 R202 R203 R204	0.025E_1%	RES 0.025E 1W 1% 2512	WSL2512R0250FEA	VISHAY	WLSG-025CT-ND	DIGIKEY	RES2512	Quantity increased by 6
109	1	110011060012-R	R205 R231 R232	4.22K_1%	RES 4.22K 1/10W 1% 0402	ERJ-2RKF4221X	PANASONIC-ECG	P4.22KJCT-	DIGIKEY	RES0402	
110	9	110009030792-R	R125	4.7K	RES 4.7K 1/16W 5% 0402	ERJ-2GEJ472X	PANASONIC-ECG	P4.7KJCT-ND	DIGIKEY	RES0402	
			R134 R135 R159 R161 R404 R542 R544 R566 R571								
			R136 R138 R195 R207 R223 R226 R227 R228 R248 R260								
			R261 R268 R276 R277 R308 R310 R330 R331 R333 R334								
			R338 R339 R340 R342 R391 R392 R393 R394 R395 R396								
			R399 R401 R403 R405 R406 R407 R408 R409 R410 R411								
			R412 R413 R414 R415 R416 R417 R418 R419 R420 R422								
			R423 R424 R425 R429 R560 R562 R565 R567 R598 R600								
111	60	110009030515-R	R142	22E	RES 22E 1/16W 5% 0402	ERJ-2GEJ220X	PANASONIC-ECG	P22JCT-ND	DIGIKEY	RES0402	Quantity decreased by 3
112	1	110009100013-R	R142	1.5E	RES 1.5E 1W 5% 2512	ERJ-1TRQJ1R5U	PANASONIC-ECG	P11.5UCT-ND	DIGIKEY	RES2512	
113	1	110009030510-P	R148	220K	RES 220K 1/16W 5% 0402	RC0402JR-07220KL	YAGEO AMERICA	311-220JKRDK-	DIGIKEY	RES0402	
114	1	110009031041-R	R149	604K_1%	RES 604K 1/16W 1% 0402	ERJ-2RKF6043X	PANASONIC-ECG	P604KJCT-	DIGIKEY	RES0402	
115	1	110009030915-R	R176	5.1E_1%	RES 5.1E 1/10W 1% 0603	MCR03EZPJ5R1	ROHM	RHM5.1GCT-ND	DIGIKEY	RES0603	
116	2	110009080028-P	R177 R178	2.7K_1%	RES 2.7K 1/16W 1% 0402	RC0402FR-072K7L	YAGEO AMERICA	311-2.70KLRCT-	DIGIKEY	RES0402	
117	1	110009030684-R	R221	330E	RES 330E 1/16W 5% 0402	MCR01MZPJ31	ROHM	RHM330JCT-ND	DIGIKEY	RES0402	
118	4	110009030513-R	R309 R320 R576 R585	221E_1%	RES 221E 1/10W 1% 0603	ERJ-3EKF2210V	PANASONIC-ECG	P221HTR-ND	DIGIKEY	RES0603	
119	2	110009030118-R	R314 R574	1.5K	RES 1.5K 1/16W 5% 0402	ERJ-2GEJ152X	PANASONIC-ECG	P1.5KJCT-ND	DIGIKEY	RES0402	
120	2	110009030411-R	R332 R346	1K_1%	RES 1K 1/16W 1% 0402	ERJ-2RKF1001X	PANASONIC-ECG	P1.00KJCT-	DIGIKEY	RES0402	
121	1	110009030966-R	R350	51K	RES 51K 1/16W 5% 0402	ERJ-2GEJ513X	PANASONIC-ECG	P51KJCT-ND	DIGIKEY	RES0402	
122	2	110009030410-R	R375 R378	1K_1%	RES 1K 1/10W 1% 0603	ERJ-3EKF1001V	PANASONIC-ECG	P1.00KHCT-	DIGIKEY	RES0603	
123	2	110009030141-R	R380 R381	1.7K_1%	RES 1.7K 1/16W 1% 0402	ERJ-2RNF1701V	PANASONIC-ECG	NA	NA	RES0402	
124	1	110009030581-R	R382	27K	RES 27K 1/16W 5% 0402	ERJ-2GEJ273X	PANASONIC-ECG	P27KJCT-ND	DIGIKEY	RES0402	
125	2	110009030085-P	R384 R385	0E_1%	RES 0E 1/16W 1% 0402	RC0402FR-070RL	YAGEO AMERICA	NA	NA	RES0402	
126	1	110009030247-R	R389	12.1K_1%	RES 12.1K 1/10W 1% 0603	ERJ-3EKF1212V	PANASONIC-ECG	P12.1KHCT-	DIGIKEY	RES0603	
127	2	110009030897-R	R428 R430	49.9E_1%	RES 49.9E 1/16W 1% 0402	ERJ-2RKF49R9X	PANASONIC-ECG	P49.9LCT-ND	DIGIKEY	RES0402	
128	2	110010100009-R	R433 R572	330E	RES 330E 1/5W 5% 0603	ESR03EZPJ31	ROHM	RHM330DCT-ND	DIGIKEY	RES0603	
129	2	110009031113-P	R452 R453	75K_0.1%	RES 75K 1/16W 0.1% 0603	RG1608N-753-B-T1	SUSUMU CO LTD	RG1608N-753-B-T1-ND	DIGIKEY	RES0603	
130	8	110009030544-P	R454 R455 R456 R457 R458 R459 R460 R461	240E	RES 240E 1/16W 5% 0402	RC0402JR-07240RL	YAGEO AMERICA	311-240JRCT-ND	DIGIKEY	RES0402	
131	4	110009030846-P	R478 R479 R480 R481	49.9E_1%	RES 49.9E 1/16W 1% 0402	CRCW040249R9FKEA	VISHAY	NA	NA	RES0402	
132	2	110010070067-R	R489 R490	0E	RES 0E 1/20W 5% 0201	RC0201JR-070RL	YAGEO AMERICA	311-0.0NCT-ND	DIGIKEY	RES0201	
133	2	110009030088	R492 R495	0E_1%	RES 0E 1/8W 1% 0805	CJ21-000F-H	AVX CORPORATION	NA	NA	RES0805	
134	1	110009030076	R524	0E	RES 0E 1/4W 5% 0805	ESR10EZPJ000	ROHM	RHM0.0KCT-ND	DIGIKEY	RES0805	
135	2	110009030082-P	R525 R545	0E	RES 0E 1/10W 5% 0603	MCR03EZPJ000	ROHM	RHM0.0GCT-ND	DIGIKEY	RES0603	
136	2	110010020034-R	R543 R570	2.37K_1%	RES 2.37K 1/10W 1% 0603	CRCW06032K37FKEA	VISHAY	541-2.37KHCT-	DIGIKEY	RES0603	
137	1	110010070007-R	R589	100K	RES 100K 1/16W 5% 0402	NRC04J104TRF	NIC COMPONENTS	NA	NA	RES0402	
138	5	110009030016-R	RA1 RA23 RA25 RA27 RA72	1K	RES ARRAY 1K 31mW 5% 0402	EXB-28V102JX	PANASONIC-ECG	Y7102CT-ND	DIGIKEY	RESA_0402-4	
			RA2 RA3 RA4 RA5 RA6 RA7 RA8 RA9 RA10 RA11 RA12 RA13								
			RA14 RA15 RA16 RA17 RA18 RA19 RA20 RA21 RA26 RA30								
			RA31 RA74								
139	24	110009030021-R	RA22 RA24 RA28 RA37 RA73	22E	RES ARRAY 22E 31mW 5% 0402	EXB-28V220JX	PANASONIC-ECG	Y7220CT-ND	DIGIKEY	RESA_0402-4	
140	5	110009030011	RA40 RA41 RA42 RA43 RA46 RA47 RA48 RA49 RA50 RA51	10K	RES ARRAY 10K 31mW 5% 0402	EXB-28V103JX	PANASONIC-ECG	Y7103CT-ND	DIGIKEY	RESA_0402-4	
141	16	110009100001-R	RA52 RA53 RA56 RA57 RA58 RA59	0E	RES ARRAY 0E 31mW 0402	EXB-28VR000X	PANASONIC-ECG	Y7000CT-ND	DIGIKEY	RESA_0402-4	
142	12	110011010028-R	RA60 RA61 RA62 RA63 RA64 RA65 RA66 RA67 RA68 RA69	51E	RES ARRAY 4RES 510HM 62.5mW 5% 0402	741C083510JP	CTS	741C083510JCT-ND	DIGIKEY	RESA_0402-4	
			RA70 RA71								
143	1	130010070001	S1	218-12LPST	SWITCH DIP SPST HALF PITCH 12POS SMD	218-12LPST	CTS	CT21812LPS-T-ND	DIGIKEY	SW12_218-12_650X230_SMD	
144	1	130010060002-R	SW1	7201MD9AGE	SWITCH TOGGLE DPDT RT TH	7201MD9AGE	C&K COMPONENTS	CKN1056-ND	DIGIKEY	SW6_7201MD9A_R_TH	
145	1	130009030397	SW2	TD02H0SB1	SWITCH ULTRA MINIATURE SPST SMD	TD02H0SB1	ITT INDUSTRIES	CKN9064-ND	DIGIKEY	SW4_50X300_150X245_SMD	
146	6	130009030349	SW3 SW4 SW6 SW7 SW12 SW14	EG-1218	SWITCH SLIDE SPST 30V TH	EG-1218	E-SWITCH	612-EG1218	MOUSER	SW3_98-42_460X160_TH	
147	4	130010060021	SW5 SW9 SW10 SW15	EOV9P105M	SWITCH LIGHT TOUCH SPST SMD	EOV9P105M	PANASONIC-ECG	P13586SCT-ND	DIGIKEY	SW4_267-7X177-16_245X240_SMD	Quantity increased by 1

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Item Number	Quantity	Mistral Part No	Part Reference	Value	Description	Mfr_part_number	Mfr_name	Distributor part number	Distributor name	PCB Footprint	Comments
148	3	130009030398	SW8 SW11 SW13	TDA04H0SK1	SWITCH ULTRA MINIATURE SPST SMD	TDA04H0SK1	ITT INDUSTRIES	CKN1363-ND	DIGIKEY	SW8_50X300_245X245_SMD	
149	2	142010050006-P	U1 U5	TPS2065DR	IC POWER DISTRIBUTION SWITCH SOIC8	TPS2065DR	TEXAS INSTRUMENTS	296-17315-1-ND	DIGIKEY	SOIC8	
150	2	140110060007-R	U2 U3	TPD2E001DRLR	IC ESD-PROTECTION ARRAY FOR HIGH_SPEED DATA INTERFACESOT-5	TPD2E001DRLR	TEXAS INSTRUMENTS	296-21883-1-ND	DIGIKEY	SOT533-5	
151	1	141010060005-P	U4	TPD12S521DBTR	IC HDMI TRANSMITTER PORT PROTECTION TSSOP38	TPD12S521DBTR	TEXAS INSTRUMENTS	296-24020-1-ND	DIGIKEY	TSSOP38_19-68_385X180	
152	12	141011080019-R	U6 U12 U17 U22 U49 U50 U51 U52 U53 U84 U85 U86	INA226AIDGSR	IC BI-DIRECTIONAL CURRENT MONITOR MSC	INA226AIDGSR	TEXAS INSTRUMENTS	296-29034-1-ND	DIGIKEY	MSOP10_19-68_125X125	Part number changed Quantity increased
153	1	143010060003-R	U7	TLV320AIC3106IRGZT	IC LOW-POWER STEREO AUDIO CODEC VQFN48	TLV320AIC3106IRGZT	TEXAS INSTRUMENTS	296-2752-1-ND	DIGIKEY	VQFN48_19-68_285X285	
154	2	142009050003-R	U8 U9	TPS76901DBVT	IC ADJUSTABLE LDO VOLTAGE REGULATOR 100mA SOT23-5	TPS76901DBVT	TEXAS INSTRUMENTS	296-2752-1-ND	DIGIKEY	SOT23-5	
155	1	142010060013-R	U10	TPS65232A2DCAR	IC TRIPLE BUCK POWER MANAGEMENT HTSSOP48	TPS65232A2DCAR	TEXAS INSTRUMENTS	TPS65232A2DCAR-ND	DIGIKEY	HTSSOP48_19-68_500X245	
156	1	142010060015	U11	TPS659113	IC POWER MANAGEMENT BGA104	TPS659113AZRC	TEXAS INSTRUMENTS	NA	NA	BGA104_25-59_360X240	
157	2	142010070010	U13 U41	MIC94060Y6C	IC SWITCH SMART LOAD SC70-6	MIC94060Y6C	MICREL INC	576-2940-1-ND	DIGIKEY	SC70-6	
158	1	141010050011-R	U14	PCF8575PWR	IC REMOTE 16-BIT I/O EXPANDER TSSOP24	PCF8575PWR	TEXAS INSTRUMENTS	296-17807-1-ND	DIGIKEY	TSSOP24_25-59_315X180	
159	1	130009030392-R	U15	SN74CBLV3125PWR	IC QUADRUPLE FET BUS SWITCH TSSOP16	SN74CBLV3125PWR	TEXAS INSTRUMENTS	296-9114-1-ND	DIGIKEY	TSSOP14_25-59_205X180	
160	1	141110050005	U16	W25X32VSFIG	IC 32MB SERIAL FLASH MEMORY SOIC16	W25X32VSFIG	WINBOND ELECTRONICS	W25X32VSFI-G-ND	DIGIKEY	SOIC16_W	
161	7	142009030140-R	U18 U19 U44 U62 U63 U64 U66	SN74CBLV1G125DBVR	IC LOW VOLTAGE SINGLE FET BUS SW SOT23-5	SN74CBLV1G125DBVR	TEXAS INSTRUMENTS	296-9109-1-ND	DIGIKEY	SOT23-5	
162	1	142009030144	U20	TPS51116	IC DDR MEMORY POWER SOLUTION SYNCHRONOUS BUCK CTRL QFN24	TPS51116RGE	TEXAS INSTRUMENTS	296-18584-5-ND	DIGIKEY	QFN24_19-68_165X165	
163	1	140110050005-R	U21	SN74CBLV3384PW	IC LOW-VOLTAGE 10-BIT FET BUS SWITCH TSSOP24	SN74CBLV3384PW	TEXAS INSTRUMENTS	296-26455-5-ND	DIGIKEY	TSSOP24_25-59_315X180	
164	1	1.4111E+11	U23	MT29F2G16AADWP:D	IC 2GB NAND FLASH MEMORY 3.3V TSOP48	MT29F2G16AADWP:D	MICRON			Socket Mounted	Socket Mount
165	4	141009070007-R	U24 U60 U61 U67	SN74LVC1G04DCKR	IC SINGLE INVERTER GATE SC70-5	SN74LVC1G04DCKR	TEXAS INSTRUMENTS	296-11600-1-ND	DIGIKEY	SC70-5	
166	1	141010060006-P	U25	MSP430F21321PWR	IC MICROCONTROLLER TSSOP28	MSP430F21321PWR	TEXAS INSTRUMENTS	296-23367-1-ND	DIGIKEY	TSSOP28_25-59_390X180	
167	1	141110050004-R	U26	CAT24C256WI-GT3	IC 256K 12C CMOS SERIAL EEPROM SOIC8	CAT24C256WI-GT3	SEMICONDUCTOR	CAT24C256WI-GT3-ND	DIGIKEY	SOIC8	
168	1	1.41211E+11	U27	TMS320DM814x	IC DM814x SECURE DIGITAL MEDIA SYSTEM ON-CHIP BGA684	TMS320DM814x	TEXAS INSTRUMENTS	NA	NA	DIRECT MOUNT	DIRECT MOUNT
169	1	141010060020-R	U28	CDCM61002RHBR	IC CLOCK GENERATOR QFN32	CDCM61002RHBR	TEXAS INSTRUMENTS	296-24193-1-ND	DIGIKEY	QFN32_19-68_205X205	
170	2	141010050010-P	U31 U45	MAX3221CPWR	IC CLOCK DRIVER/RECEIVER SINGLECHANNEL RS-232 TSSOP16	MAX3221CPWR	TEXAS INSTRUMENTS	296-9594-1-ND	DIGIKEY	TSSOP16_25-59_205X180	
171	1	130009031108-R	U32	32.768KHz	OSC 32.768KHz SMD	ECS-327KO-TR	ECS INC	XC1489CT-ND	DIGIKEY	OSC4_ECS-327KO_170X110_SM	
172	1	141010060017	U33	TSOP34840	MODULE IR RECEIVER MODULES FOR REMOTE CONTROL SYSTEMS 40KHz TH	TSOP34840	VISHAY	NA	NA	MOD3_TSOP34840	
173	1	141009030231	U34	SN74LVC1G125DCKR	IC SINGLE BUS BUFFER GATE SC70-5	SN74LVC1G125DCKR	TEXAS INSTRUMENTS	296-11604-2-ND	DIGIKEY	SC70-5	
174	3	142010060001-P	U35 U37 U59	TPS3808G09DBVRG4	IC µP SUPERVISOR CIRCUITS SOT23-6	TPS3808G09DBVRG4	TEXAS INSTRUMENTS	TPS3808G09DBVRG4-ND	DIGIKEY	SOT23-6	
175	1	141009030372-R	U36	IDT74FCT38075DCGI	IC CLOCK DRIVER SOIC8	IDT74FCT38075DCGI	IDT	609-2883-ND	DIGIKEY	SOIC8	
176	1	150010060019	U38	CON64_PCI	CON PCI EXPRESS 64PDS SMD	10061913-101CLF	FCI			CON_PCI_64X2_10061913_S_S_S	
177	8	141110080001	U39 U47 U48 U54 U55 U56 U57 U58	MT41J128M8JP-125	IC 1GB DDR3 SDRAM FBGA78	MT41J128M8JP-125	MICRON			FBGA78_31-49_460X320	
178	1	141009030227	U42	SN74LVC1G08	IC SINGLE 2-INPUT POSITIVE-AND GATE SC70-5	SN74LVC1G08DCKT	TEXAS INSTRUMENTS			SC70-5	
179	1	130010050023-R	U43	24.5760MHz	OSC 24.5760MHz SMD	CSX750FBC24.576000M-UT	CITIZEN	300-7245-1-ND	DIGIKEY	OSC4_CSX-750F_285X205_SMD	
180	1	141009030218	U46	SN74LV21A	IC DUAL 4-INPUT POSITIVE AND GATES TSSOP14	SN74LV21APW	TEXAS INSTRUMENTS			TSSOP14_25-59_205X180	
181	1	142010110011-R	U65	TPS3307-33DGN	IC SUPERVISORS TRIPLE PROCESSOR EP MSOP8	TPS3307-33DGN	TEXAS INSTRUMENTS	296-3315-5-ND	DIGIKEY	EMSOP8_25-59_125X125	
182	1	142011010011-R	U68	TPS62353YZGT	IC SYNCHRONOUS STEPDOWN CONVERTER 800mA 1.1W DSBGA12	TPS62353YZGT	TEXAS INSTRUMENTS	TPS62353YZGT-ND	DIGIKEY	DSBGA12_19-68_105X85	
183	2	143011010001-R	U69 U70	AR8031-AL1A	IC ETHERNET TRANSCEIVER 10/100/1000 GIGABIT QFN48	AR8031-AL1A	ATHEROS COMMUNICATIONS	NA	NA	QFN48_15-74_240X240	
184	1	1.41009E+11	U72	74AHC1G08	IC 2 INPUT AND GATE SOT353-5	74AHC1G08GW	PHILIPS			SOT353-5	Part number changed
185	1	141009030241-P	U73	SN74LVC2G08DCTR	IC DUAL 2-INPUT POSITIVE AND GATE SSOP8	SN74LVC2G08DCTR	TEXAS INSTRUMENTS	595-SN74LVC2G08DCTR	MOUSER	SSOP8_25-59_125X115	
186	1	141009030232-R	U74	SN74LVC1G126DBVR	IC SINGLE BUS BUFFER GATE SOT23-5	SN74LVC1G126DBVR	TEXAS INSTRUMENTS	296-11605-1-ND	DIGIKEY	SOT23-5	
187	2	130009030095-P	Y1 Y4	32.768KHz	CRY 32.768KHz SMD	FC-135 32.7680KA-A3	CRYSTAL UNITS	SE2413CT-ND	DIGIKEY	XTAL_FC-135_130X65_SMD	
188	1	130009030033-R	Y2	20MHz	CRY 20MHz SMD	ABM3B-20.000MHZ-10-1-U-T	ABRACON	300-8214-1-ND	DIGIKEY	XTAL4_ABM3B_210X130_SMD	
189	2	130010020024-R	Y3 Y8	25MHz	CRY 25MHz SMD	ABM3-25.000MHZ-B2-T	ABRACON	535-9108-1-ND	DIGIKEY	XTAL_ABM3_205X130_SMD	
190	1	130010050022-R	Y5	25MHz	CRY 25MHz SMD	ABM10-25.000MHZ-E20-T	ABRACON	535-9095-1-ND	DIGIKEY	XTAL4_ABM10_105X85_SMD	

ASM_BOM

Item Number	Quantity	Mistral Part No	Part Reference	Value	Description	Mfr_part_number	Mfr_name	Distributor_part_number	Distributor_name	PCB Footprint	Comments
191	1	130010060022-R	Y6	22.579MHz	CRY 22.579MHz SMD	MA-505.22.579M-C0	EPSON	NA	NA	XTAL_MA-505_500X200_SMD	Mount the alternate Part CRY 22.579MHz_TH on the reference
192	1	1.60011E+11	ACC2(for U23)	SKT-02-0406	SOCKET TSOP 0.50MM PITCH TSOPSKT48	SKT-02-0406	MERITEC	NA	NA	TSOPSKT48_19-68_730X480	
193	1	141009030117-R	U88	SN74CB303257PWR	IC 4BIT 1-OF-2 FET MULTIPLEXER/DEMULTIP	SN74CB303257PWR	TEXAS INSTRUMENT	296-19138-1	DIGIKEY	TSSOP16_25-59_205X180	Newly added
Accessories											
Item Number	Quantity	Mistral Part No	Part Reference	Value	Description	Mfr_part_number	Mfr_name	Distributor_part_number	Distributor_name	PCB Footprint	Comments
193	8		Jumper caps - short for JP1-1&2, J13-1&2, J13-3&4, J13-5&6, J13-9&10, open for J13-7&8 .short for J22-1&2,J23-1&2	Jumpers	CONN JUMPER SHORTING TIN	SPC02SYAN	Sullins Connector Solutions	S9000-ND	Digikey		
194	1		DM814x PCB T0 layer		DM814x PCB T0 layer		HI-Q				
195	7		M3X10mm Spacer both end female								
196	7		M3X40mm Spacer male and female end								
197	7		M3X1mm Fibre washer								
198	1	160011020015	3pin Power Chord-								
199	1	160011020014	12V/5Amps Power Adaptor								
200	1	160011020013	Universal Travel Adaptor								
201	11	130010110008-R	TP4 TP5 TP9 TP30 TP50 TP51 TP67 TP69 TP72 TP73 TP77		5007 TESTPOINT 3.2MM DIA WHITE TH	5007	KEYSTONE	5007K-ND	DIGIKEY	TP_63X93	
DNI LIST											
Item Number	Quantity	Mistral Part No	Part Reference	Value	Description	Mfr_part_number	Mfr_name	Distributor_part_number	Distributor_name	PCB Footprint	Comments
1	2	110009030515-R	R348 R351	22E	RES 22E 1/16W 5% 0402	ERJ-2GEJ220X	PANASONIC-ECG	P22JCT-ND	DIGIKEY	RES0402	Quantity decreased by 2
2	24	110009030083	R103 R179 R191 R199 R208 R209 R236 R246 R255 R273 R286 R288 R323 R324 R325 R336 R337 R352 R427 R482 R497 R504 R516 R519	0E	RES 0E 1/16W 5% 0402	WR04X000_JT	WALSIN	NA	NA	RES0402	Quantity decreased by 3
3	54	110009030208-P	R21 R60 R61 R62 R63 R71 R72 R77 R109 R115 R120 R139 R150 R182 R183 R184 R185 R238 R241 R274 R281 R284 R290 R297 R298 R300 R302 R315 R335 R354 R518 R526 R529 R531 R533 R535 R537 R539 R541 R547 R548 R550 R552 R554 R556 R558 R561 R573 R587 R588 R590 R591	10K	RES 10K 1/16W 5% 0402	RC0402JR-0710KL	YAGEO AMERICA	311-10KJRCT-ND	DIGIKEY	CAP0402	
4	2	120009030085	C3 C9	0.1uF	CAP CERAMIC 0.1uF 25V -20% TO +80 V5V 0402	GRM155F51E104ZA01D	MURATA	490-3271-1-ND	DIGIKEY	RES0402	
5	6	120009030442	C409 C414 C415 C858 C859 C860	470pF	CAP CERAMIC 470pF 50V 5% NP0 0402	GRM1555C1H471JA01D	MURATA	490-1297-1-ND	DIGIKEY	CAP0402	
6	2	130009031013	LD9 LD10		DIODE LED GREEN 1206	LTST-C150GKT	LITEON	160-1169-1-ND	DIGIKEY	LED_1206	
7	2	110009030088	R493 R494	0E_1%	RES 0E 1/8W 1% 0805	CJ21-000F-H	AVX CORPORATION	NA	NA	RES0805	
8	1	110009030164-R	R220	100E	RES 100E 1/16W 5% 0402	RES-2GEJ101X	PANASONIC-ECG	P100JCT-ND	DIGIKEY	RES0402	
9	1	150009030246-R	J24	HDR_2X1	CON HDR 2X1 2.54MM PITCH ST TH	22-03-2021	MOLEX	WM4000-ND	DIGIKEY	HDR_2X1_100_S_T	
10	1	120009030264	C200	1uF	CAP CERAMIC 1uF 10V 10% X5R 0402	GRM155R61A105KE15D	MURATA	490-3890-1-ND	DIGIKEY	CAP0402	
11	1	110009030411-R	R502	1K_1%	RES 1K 1/16W 1% 0402	ERJ-2RKF1001X	PANASONIC-ECG	PT.00KLCCT-ND	DIGIKEY	XTAL_192-12_450X185_TH	
12	1	130010110009-R	Y7	22.579MHz	CRY 22.579MHz TH	49U2MF1118P022M579000	ANDHRA ELECTRONICS	NA	NA	RES0402	Need to Mount Y7,Y6 as DNI
13	16	110009030046-R	R40 R42 R51 R52 R64 R67 R86 R88 R90 R107 R118 R128 R145 R175 R189 R267	0.01E_1%	RES 0.01E 1W 1% 2512	ERJ-M1WSF10MU	PANASONIC-ECG STACKPOLE	P10MCT-ND CSS27250.0 01FRDKR-ND	DIGIKEY	RES2512	
14	1	110010070062-R	R23	0.001E_1%	RES 0.001E 4W 1% 2725	CSS 2725 0.001 1% R				RES2725	