

ITEM	REF DES	DNI/DNP	QTY	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION
1	C1	-	1	C1005X7R1V103K050BB	TDK	0.01UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01UF; 35V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R
2	C2, C7, C9, C102-C108, C116, C117	-	12	C0402C104J4RAC	KEMET	0.1UF	CAPACITOR; SMT; 0402; CERAMIC; 0.1uF; 16V; 5%; X7R; -55degC to + 125degC; 0 +/-15% degC MAX.
3	C3	-	1	C0402C105K8PAC	KEMET	1UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 1UF; 10V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R
4	C4	-	1	C1608X5R1A106K	TDK	10UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 10UF; 10V; TOL=10%; MODEL=-; TG=-55 DEGC TO +85 DEGC; TC=X5R
5	C5, C6, C8	-	3	C0603C475K8PAC;LMK107BJ475KA-T;CGB3B1X5R1A475K;C1608X5R1A475K080;CL10 A475KP8NNN	KEMET;TAIYO YUDEN;TDK;TDK;SAMSUNG ELECTRONICS	4.7UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 4.7UF; 10V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R
6	C10, C20	-	2	C0603C104K8RAC	KEMET	0.1UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 10V; TOL=10%; MODEL=C0603 SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R
7	C11-C13, C21-C23	-	6	GKM107B1105KA; C1608X5R1V105K080A8	TAIYO YUDEN;TDK	1.0UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 1UF; 35V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R
8	C14, C19, C24, C29	-	4	C2012X7S2A105K125;GRJ21BC72A105KE11;CGA4 J3X7S2A105K125A8;GRM21BC72A105KE01	TDK;MURATA;TDK;MURATA	1UF	CAPACITOR; SMT (0805); CERAMIC CHIP; 1UF; 100V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7S
9	C15-C18, C25-C28, C31-C34	-	12	VJ0603A271KXB	VISHAY VITRAMON	270PF	CAPACITOR; SMT (0603); CERAMIC CHIP; 270PF; 100V; TOL=10%; MODEL=C0G; TG=-55 DEGC TO +125 DEGC; TC=+
10	C50, C52, C54, C58, C67	-	5	C1005X5R1A104K; LMK105B1104KV	TDK;TAIYO YUDEN	0.1UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1UF; 10V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R
11	C51, C53, C55, C56, C59, C62	-	6	EMK107B1105MA	TAIYO YUDEN	1UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 1UF; 16V; TOL=20%; TG=-55 DEGC TO +85 DEGC; TC=X5R
12	C60	-	1	GRM188F51A475Z	MURATA	4.7UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 4.7UF; 10V; TOL=+80%-20%; MODEL=GRM SERIES; TG=-30 DEGC TO +85 DEGC; TC=Y5V
13	C61, C64	-	2	C0603X7R1A103K030BA;GRM033R71A103KA01	TDK;MURATA	0.01UF	CAPACITOR; SMT (0201); CERAMIC CHIP; 0.01UF; 10V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R
14	C63	-	1	GRM033R61A104KE15; LMK063B1104KP	MURATA;TAIYO YUDEN	0.1UF	CAPACITOR; SMT (0201); CERAMIC CHIP; 0.1UF; 10V; TOL=10%; MODEL=-; TG=-55 DEGC TO +125 DEGC; TC=X5R
15	C65	-	1	GRM188R601105KA01	MURATA	1UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 1UF; 6.3V; TOL=10%; MODEL=GRM SERIES; TG=-55 DEGC TO +85 DEGC; TC=X5R;
16	C66	-	1	GRM31CR72A105KA01L; C3216X7R2A105K160	MURATA;TDK	1UF	CAPACITOR; SMT; 1206; CERAMIC; 1uF; 100V; 10%; X7R; -55degC to + 125degC
17	C68	-	1	C5750X7S2A106M230KB	TDK	10UF	CAPACITOR; SMT (2220); CERAMIC CHIP; 10UF; 10V; TOL=20%; MODEL=-; TG=-55 DEGC TO +125 DEGC; TC=X7S
18	C69	-	1	ZR8157R61A225KE11; GRM155R61A225KE95	MURATA;MURATA	2.2UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 2.2UF; 10V; TOL=10%; TG=-55 DEGC TO +85 DEGC; TC=X5R
19	C71, C72	-	2	C0402C180J5GAC;GRM1555C1H180JA01;C1005C 061H180J050	KEMET;MURATA;TDK	18PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 18PF; 50V; TOL=5%; TG=-55 DEGC TO +125 DEGC; TC=C0G
20	C124	-	1	GRM31CR701106K	MURATA	10UF	CAPACITOR; SMT (1206); CERAMIC CHIP; 10UF; 6.3V; TOL=10%; MODEL=GRM SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R
21	D1	-	1	SM30T47CAY	ST MICROELECTRONICS	46.7V	DIODE; TVS; SMC (DO-214AB); VRM=46.7V; IPP=0.2uA
22	D2	-	1	B180-13-F	DIODES INCORPORATED	B180-13-F	DIODE; SCH; SCHOTTKY BARRIER RECTIFIER; SMA; PIV=80V; IF=1A
23	D51	-	1	LG L29K-G21J-24	OSRAM	LG L29K-G21J-24	DIODE; LED; SMT (0603); VF=1.7V; If(test)=0.002A; -40 DEGC TO +100 DEGC
24	F1	-	1	0458-06.3	LITTELFUSE	6.3A	FUSE; SMT (1206); FAST ACTING; IC=6.3A; VC=75V
25	J1	-	1	USB-B1HSB6	ON-SHORE TECHNOLOGY INC	USB-B1HSB6	CONNECTOR; MALE-FEMALE; THROUGH HOLE; BLACK USB-B TYPE; RIGHT ANGLE; 4PINS
26	J3	-	1	961106-6404-AR	3M	961106-6404-AR	CONNECTOR; THROUGH HOLE; PIN STRIP HEADER; STRAIGHT THROUGH; 6PINS;
27	J11, J12, J21, J22	-	4	12FS4000-PG9	HIGH TECH PRODUCTS	12FS4000-PG9	CONNECTOR; M12 FEMALE PANEL 4 POLES BACK MOUNTING PG9 FOR PCB
28	JTAG	-	1	FTS-105-01-L-DV	SAMTEC	FTS-105-01-L-DV	CONNECTOR; MALE; SMT; MICRO LOW PROFILE TERMINAL STRIP; STRAIGHT; 10PINS
29	L1, L2	-	2	BLM21AG601SN1	MURATA	600	INDUCTOR; SMT (0805); FERRITE-BEAD; 600; TOL=+/-25%; 0.2A
30	L3	-	1	LP54018-473MLB	COILCRAFT	47UH	INDUCTOR; MAGNETICALLY SHIELDED FERRITE BOBBIN CORE; SMT; 47UH; TOL=+/-20%; 0.68A; -40 DEGC TO +85 DEGC
31	LED1, LED2, LED17, LED19, LED27, LED29	-	6	SML-P12PT	ROHM	SML-P12PT	DIODE; LED; SML-P1 SERIES; ULTRA COMPACT HIGH BRIGHTNESS LED; GREEN; SMT (0402); VF=2.2V; IF=0.02A
32	LED15, LED16, LED18, LED25, LED26, LED28	-	6	SML-P12UT	ROHM	SML-P12UT	DIODE; LED; SML-P1 SERIES; ULTRA COMPACT HIGH BRIGHTNESS LED; RED; SMT (0402); VF=2V; IF=0.02A
33	P1	-	1	PJ-202AH	CUI INC.	PJ-202AH	CONNECTOR; MALE; THROUGH HOLE; DC POWER JACK; RIGHT ANGLE; 3PINS
34	Q11-Q14, Q21-Q24	-	8	NTTF55116PL	ON SEMICONDUCTOR	NTTF55116PL	TRAN; POWER MOSFET; PCH; WDFN8; PD-(40W); I(-20A); V(-60V)
35	R1, R2	-	2	ERJ-2RKF10R0X	PANASONIC	10	RESISTOR; 0402; 10 OHM; 1%; 100PPM; 0.10W; THICK FILM
36	R3, R65-R69	-	6	CRCW060310K0FK;ERJ-3EKF1002	VISHAY DALE;PANASONIC	10K	RESISTOR; 0603; 10K; 1%; 100PPM; 0.10W; THICK FILM
37	R4	-	1	CRCW060315K0FK	VISHAY DALE	15K	RESISTOR; 0603; 15K OHM; 1%; 100PPM; 0.10W; THICK FILM
38	R5, R52, R54, R113	-	4	CRCW040210K0FK; RC0402FR-0710K	VISHAY DALE;YAGEO PHICOMP	10K	RESISTOR; 0402; 10K; 1%; 100PPM; 0.0625W; THICK FILM
39	R6	-	1	CRCW04022K20FK;RC0402FR-072KZL	VISHAY DALE;YAGEO PHICOMP	2.2K	RESISTOR; 0402; 2.2K OHM; 1%; 100PPM; 0.0625W; THICK FILM
40	R7	-	1	CRCW060312K0FK	VISHAY DALE	12K	RESISTOR; 0603; 12K OHM; 1%; 100PPM; 0.10W; THICK FILM
41	R8	-	1	CRCW06034K70FK	VISHAY DALE	4.7K	RESISTOR; 0603; 4.7K; 1%; 100PPM; 0.10W; THICK FILM
42	R11, R12	-	2	CRCW04024K99FK	VISHAY DALE	4.99K	RESISTOR; 0402; 4.99K; 1%; 100PPM; 0.0625W; THICK FILM
43	R20, R115, R122, R123, R215, R222, R223	-	7	CRCW0402820RFK;RC0402FR-07820RL	VISHAY DALE;YAGEO PHICOMP	820	RESISTOR; 0402; 820 OHM; 1%; 100PPM; 0.0625W; THICK FILM
44	R21, R120, R121, R220, R221	-	5	CRCW08056K80FK	VISHAY DALE	6.8K	RESISTOR; 0805; 6.8K OHM; 1%; 100PPM; 0.125W; THICK FILM
45	R51	-	1	ERJ-2RKF1001X	PANASONIC	1K	RESISTOR; 0402; 1K OHM; 1%; 100PPM; 0.10W; THICK FILM

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46	R61-R64	-	4	CRCW0603100RFK;ERJ-3EKF1000;RC0603FR-07100RL	VISHAY DALE;PANASONIC	100	RESISTOR; 0603; 100 OHM; 1%; 100PPM; 0.10W; THICK FILM
47	R70	-	1	ERJ-1GN1103	PANASONIC	10K	RESISTOR; 0201; 10K OHM; 5%; 200PPM; 0.05W; THICK FILM
48	R72-R75	-	4	RC1608J000CS;CR0603-J/-000ELF;RC0603JR-070RL	SAMSUNG ELECTRONICS;BOURNS;YAGEO PH	0	RESISTOR; 0603; 0 OHM; 5%; JUMPER; 0.10W; THICK FILM
49	R101-R106, R201-R206	-	12	ERJ-2GE0R00X	PANASONIC	0	RESISTOR; 0402; 0 OHM; 0%; JUMPER; 0.10W; THICK FILM
50	R108, R109, R208, R209	-	4	LRC-LRF1206LF-01-R012F	TT ELECTRONICS	0.012	RESISTOR; 1206; 0.012 OHM; 1%; 100PPM; 0.5W; THICK FILM
51	R110, R111, R210, R211	-	4	RC0402JR-070RL; CR0402-16W-000RJT	YAGEO PHYCOMP;VENKEL LTD.	0	RESISTOR; 0402; 0 OHM; 5%; JUMPER; 0.063W; THICK FILM
52	R130-R133, R230-R233	-	8	CR0402-JW-101GLF	BOURNS	100	RESISTOR; 0402; 100 OHM; 5%; 200PPM; 0.063W; THICK FILM
53	R213	-	1	CRCW04021K00FK; RC0402FR-071KL	VISHAY DALE;YAGEO PHICOMP	1K	RESISTOR; 0402; 1K; 1%; 100PPM; 0.0625W; THICK FILM
54	TP1, TP2, TP50, TP51	-	4	5020	KEYSTONE	N/A	TEST POINT; PIN DIA=0.094IN; TOTAL LENGTH=0.350IN; BOARD HOLE=0.040IN; NONE; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;
55	TVS11-TVS18, TVS21-TVS26	-	14	SMM4F33A	ST MICROELECTRONICS	33V	DIODE; TVS; SMT (DO-216AA); VRM=33V; IPP=7A
56	U1	-	1	93LC66BT-I/OT	MICROCHIP	93LC66BT-I/OT	IC; EPROM; 4K MICROWIRE SERIAL EEPROM; SOT23-6
57	U2	-	1	24LC128T-E/MNY	MICROCHIP	24LC128T-E/MNY	IC; EPROM; 128K I2C CMOS SERIAL EEPROM; TDFN8-EP
58	U5	-	1	MAX15006AATT+	MAXIM	MAX15006AATT+	IC; VREG; ULTRA-LOW QUIESCENT-CURRENT LINEAR REGULATOR; TDFN6-EP 3X3
59	U10, U20	-	2	MAX14819ATM+	MAXIM	MAX14819ATM+	EVKIT PART-IC; PKG. DWG. NO.: 21-0144; PKG. CODE: T4877-4C; LAND PATTERN DWG. NO.: 90-0130; TQFN48-EP 7 X 7
60	U50	-	1	STM32F412RGT6	ST MICROELECTRONICS	STM32F412RGT6	IC; UCON; ARM-BASED 32-BIT MICROCONTROLLER; GENERAL PURPOSE; 412 LINE; 1024KBYTES OF FLASH MEMORY; LQFP64
61	U51	-	1	FT2232HQ	FUTURE TECHNOLOGY DEVICES INTL LTD.	FT2232HQ	IC; MMR; DUAL HIGH SPEED USB TO MULTIPURPOSE UART/FIFO; QFN64-EP
62	U52	-	1	MAX14931FASE+	MAXIM	MAX14931FASE+	IC; DISO; 3/1 CHANNEL; 150MBPS; DEFAULT LOW; 2.75KV RMS DIGITAL ISOLATOR; NSOIC16 150MIL
63	U54	-	1	MAX15062AATA+	MAXIM	MAX15062AATA+	IC; CONV; ULTRA-SMALL; HIGH EFFICIENCY; SYNCHRONOUS STEP-DOWN DC-DC CONVERTER; TDFN8
64	Y1	-	1	ABM7-12.000MHZ-D2Y-T	ABRACON	12MHZ	CRYSTAL; SMT ; 18PF; 12MHZ; +/-20PPM; +/-30PPM
65	Y2	-	1	MJ-14.74560-12-30/30/4085	MERCURY ELECTONICS EUROPE	14.7456MHZ	CRYSTAL; SMT; 12PF; 14.7456MHZ; +/-30PPM
66	Y4	-	1	ASE-50.000MHZ-LC	ABRACON	50MHZ	OSCILLATOR; SMT 3.2X2.5; 15PF; 50MHZ; +/-50PPM; -40 DEGC TO +85 DEGC
67	PCB	-	1	MAXREFDES165_APPS_A	MAXIM	PCB	PCB:MAXREFDES165_APPS_A
68	J2	DNP	0	105017-0001	MOLEX	105017-0001	CONNECTOR; FEMALE; SMT; MICRO-USB B RECEPTACLE; RIGHT ANGLE; 5PINS
69	R53	DNP	0	ERJ-2RKF1001X	PANASONIC	1K	RESISTOR; 0402; 1K OHM; 1%; 100PPM; 0.10W; THICK FILM
70	R107, R207	DNP	0	RC0402JR-070RL; CR0402-16W-000RJT	YAGEO PHYCOMP;VENKEL LTD.	0	RESISTOR; 0402; 0 OHM; 5%; JUMPER; 0.063W; THICK FILM
71	R140, R141	DNP	0	ERJ-2RKF10R0X	PANASONIC	10	RESISTOR; 0402; 10 OHM; 1%; 100PPM; 0.10W; THICK FILM
TOTAL			199				