

PCB Asssembly PB-0133-01

Item	PCB	Qty	Part Reference	Value	Description	Manufacturer	Manufacturer Part Num	Supplier	Supplier Part Number	PCB Footprint	Type
1	132	3	AT1, L4, L5	0_OHM	RES 0_OHM 1/16W 5% 0603 SMD	PANASONIC - ECG	ERJ-3GSYJ0R0V	DIGIKEY	P0.0GCT-ND	603	Surface Mount
			C1, C2, C3, C4, C5, C6, C8, C10, C22, C33, C49, C51,								
2	132	18	C59, C60, C66, C69,C74,C74	1000PF	CAP CERAMIC 1000PF 50V C0G 0402	MURATA	GRM1555C1H102JA01D	DIGIKEY	490-3244-1-ND	402	Surface Mount
3	132	6	C7, C9, C34, C35, C71, C72	2.4PF	CAPACITOR CERAMIC 2.4PF 50V C0G 0603	MURATA	GRM1885C1H2R4CZ01E	DIGIKEY	490-1381-1-ND	603	Surface Mount
4	132	5	C11, C14, DC8, DC9, DC12	0.01UF	10000PF/50V CERAMIC CHIP CAPACITOR Y5V	PANASONIC - ECG	ECJ-1VF1H103Z	DIGIKEY	PCC1801CT-ND	603	Surface Mount
5	132	1	C12	0.01UF	10000PF/50V CERAMIC CHIP CAPACITOR X7R	PANASONIC - ECG	ECJ-1VB1H103K	DIGIKEY	PCC1784CT-ND	603	Surface Mount
6	132	2	C13, C15	1UF	1UF/10V CERAMIC CHIP CAPACITOR Y5V	PANASONIC - ECG	ECJ-1VF1A105Z	DIGIKEY	PCC1787CT-ND	603	Surface Mount
7	132	4	C16, C17, C20, C21	330PF	CAP CERAMIC 330PF 50V 5% C0G 0402	MURATA	GRM1555C1H331JA01D	DIGIKEY	490-1295-1-ND	402	Surface Mount
8	132	1	C23	3.9PF	CAP CERAMIC 3.9PF 50V C0G 0402	MURATA	GRM1555C1H3R9CZ01E	DIGIKEY	490-1272-1-ND	402	Surface Mount
9	132	1	C24	3.6PF	CAP CERAMIC 3.6PF 50V C0G 0402	MURATA	GRM1555C1H3R6CZ01E	DIGIKEY	490-1271-1-ND	402	Surface Mount
10	132	1	C25	1.2PF	CAP CERAMIC 1.2PF 50V C0G 0402	MURATA	GRM1555C1H1R2CZ01E	DIGIKEY	490-1265-1-ND	402	Surface Mount
11	132	1	C26	1.8PF	CAP CERAMIC 1.8PF 50V C0G 0402	MURATA	GJM1555C1H1R8CB01E	DIGIKEY	490-3089-1-ND	402	Surface Mount
12	132	1	C27	6.2PF	CAP CERAMIC 6.2PF 50V C0G 0402	MURATA	GJM1555C1H6R2CB01E	DIGIKEY	490-3105-1-ND	402	Surface Mount
			C28, C29, C32, C48, C50,								
13	132	10	C52, C53, C54, C64, C70	10PF	CAP CERAMIC 10PF 50V 5% C0G 0402	MURATA	GRM1555C1H100JZ01D	DIGIKEY	490-1278-1-ND	402	Surface Mount
14	132	1	C30	3PF	CAP CERAMIC 3PF 50V C0G 0402	MURATA	GJM1555C1H3R0CB01E	DIGIKEY	490-3094-1-ND	402	Surface Mount
15	132	2	C31, C46	2.2PF	CAP CERAMIC 2.2PF 50V C0G 0402	MURATA	GRM1555C1H2R2CZ01E	DIGIKEY	490-1267-1-ND	402	Surface Mount
16	132	1	C36,C37,C38	0.5PF	CAP CERAMIC 0.5PF 50V C0G 0402	MURATA	GRM1555C1HR50CZ01E	DIGIKEY	490-1263-1-ND	402	Surface Mount
17	132	2	C39, C43	100PF	CAP CERAMIC 100PF 50V C0G 0402	MURATA	GRM1555C1H101JZ01D	DIGIKEY	490-3458-1-ND	402	Surface Mount
			C40, C44, C45, C47, C61,								
18	132	8	C62, C65, C68	0.1UF	.1UF/16V CERAMIC CHIP CAPACITOR Y5V	PANASONIC - ECG	ECU-E1C104ZFY	DIGIKEY	PCC1731CT-ND	402	Surface Mount
19	132	1	C41	1.5PF	1.5PF/50V CERAMIC CHIP CAPACITOR NPO	PANASONIC - ECG	ECU-E1H1R5CCQ	DIGIKEY	PCC1R5CQCT-ND	402	Surface Mount
20	132	1	C42	2.4PF	CAP CERAMIC 2.4PF 50V C0G 0402	MURATA	GJM1555C1H2R4CB01E	DIGIKEY	490-3092-1-ND	402	Surface Mount
21	132	6	C55, C56, C57, C58, C63, C67	10UF-16V	CAPACITOR TANTALUM	KEMET	T491A106M016AT	DIGIKEY	399-3687-1-ND	EIA-TANT-A1	Surface Mount
22	132	1	CON1	HDR_4	CONN HEADER 4POS 1.25MM VERT TIN	MOLEX	53047-0410	DIGIKEY	WM1733-ND	DF13-4P-1.25	Through Hole
23	132	1	CON2	HDR_2	CONN HEADER 2POS 1.25MM VERT TIN	MOLEX	53047-0210	DIGIKEY	WM1731-ND	DF13-2P-1.25	Through Hole
24	132	1	D1	1N4004	RECTIFIER 1 AMP 400V	MICRO COMMERCIAL	1N4004-TP	DIGIKEY	1N4004-TPMSCT-ND	DO-41	Through Hole
25	132	2	D2, D3	DL4148	SW RECT 0.15A 75V SMT MINIMELF	MICROSEMI	DL4148-TP	DIGIKEY	DL4148-TPMSCT-ND	SOD123/MELF	Surface Mount
26	132	1	D4	1N4732A	4.7V 5% 1W SMD ZENER DIODE	ONSEMI	1SMA5917BT3	DIGIKEY	1SMA5917BT3OSCT-ND	DIO-SM	Surface Mount
27	132	1	D5	15MQ040N	DIODE SCHOTTKY 40V 3.0A SMA	Vishay/Inter Rect	15MQ040NTRPBF	NEWARK	19K8500	SMA	Surface Mount
28	132	4	DC1, DC4, DC5, DC7	0.1UF	.1UF/25V CERAMIC CHIP CAPACITOR Y5V	PANASONIC - ECG	ECJ-1VF1E104Z	DIGIKEY	PCC1794CT-ND	603	Surface Mount
29	132	3	DC2, DC3, DC6	2.2UF-16V	CAPACITOR TANT 2.2UF 16V 10% SMD	KEMET	T491A225K016AT	DIGIKEY	399-3691-1-ND	EIA-TANT-A1	Surface Mount
30	132	1	DC10	100UF-16V	CAP ELECT 100UF 16V TG SMD LOW ESR	PANASONIC	EEV-TG1C101P	DIGIKEY	PCE3619CT-ND	PCE-F	Surface Mount
31	132	1	DC11	100UF-50V	CAP ELECT 100UF 50V TG SMD LOW ESR	PANASONIC	EEV-TG1H101UP	DIGIKEY	PCE3645CT-ND	PCE-G	Surface Mount
32	132	1	DC13	100UF-16V	CAPACITOR TANT 100UF 16V 10% SMD	KEMET	T491D107K016AT	DIGIKEY	399-3770-1-ND	EIA-TANT-D1	Surface Mount
33	132	1	J1	SMA-PLUG	CONN SMA PLUG RT ANGLE PCB	AMPHENOL	901-9894-RFX	DIGIKEY	ARFX1230-ND	SMA-PLUG/RA	Through Hole
34	132	1	J2	BNC	BNC RA PCB MOUNT	AMPHENOL	31-71043-10	DIGIKEY	ARF1179-ND	JKBNC	Through Hole
35	132	1	J3	SMA-JACK	RP-SMA FEMALE RIGHT ANGLE PCB MOUNT - EXTENDED	LINX TECHNOLOGIES	CONREVSMA002-L	CONNECTOR CITY	CONREVSMA002-L	SMA-JACK/RA	Through Hole
36	132	1	J4	RCA-WHT	RCA JACK RA PCB MOUNT (WHITE)	KOBICONN	161-0098-E	MOUSER	161-0098-E	RCA-161-009X	Through Hole
37	132	2	J5,J6	HDR_2	2 CIRCUIT HEADER .100 STRAIGHT	SULLINS	PEC36SAEN	DIGIKEY	S1052E-36-ND	SIP-2P	Through Hole
38	132	2	JMP1, JMP2	SHUNT	.1 INCH SHUNT	SULLINS	STC02SYAN	DIGIKEY	S9000-ND		
39	132	1	JP1	HDR_8	8 CIRCUIT HEADER .100 STRAIGHT	SULLINS	PEC36SAEN	DIGIKEY	S1052E-36-ND	SIP-8P	Through Hole
40	132	1	JP2	Plug	SULLINS	Switchcraft	TB4M	Allied	932-1216	SIP-3P	Through Hole
41	132	1	JP3	SD-30LS	CONN DIN RECPT LOCKING PNT MT 3P	CUI-STACK	SD-30LS	DIGIKEY	CP-1233-ND	SIP-3P-150	Through Hole
42	132	1	L1	22NH	INDUCTOR CHIP 22NH 20% SMD	J W MILLER	PM1008-22NM	DIGIKEY	M1180CT-ND	1008	Surface Mount
43	132	1	L2	112UH	INDUCTOR 112UH 20% SMD	PULSE	PE-53829S	MOUSER	673-PE-53829S	LCI-44	Surface Mount
44	132	1	L4	3.9UH	INDUCTOR 3.9UH	AVX	L04023R9BHNTR	DIGIKEY	478-4199-2-ND	402	Surface Mount
45	132	4	L3, L6, L7, L8	24NH	INDUCTOR, 24NH, 2%	KOA SPEER	KQ0603LTE24NG	MOUSER	660-KQ0603LTE24NG	603	Surface Mount
46	132	1	L9	100uH	INDUCTOR FIXED SMD 100µH 20%	PANASONIC	ELJ-FA101KF	DIGIKEY	PCD1032CT-ND	IND-1210	Surface Mount
47	132	1	MOD1	2.4GHZ TX	2.4GHZ, 13dBm TX MODULE	AV DESIGN SOLUTIONS	TX-20MW-IC2				
48	132	1	Q1	2N3904	TRANS NPN SW 200MA 40V SOT23	NXP Semiconductors	PMBT3904 T/R	DIGIKEY	568-1741-1-ND	SOT23	Surface Mount
49	132	2	R1, R8	1.0K	RES 1.0K 1/16W 5% 0603 SMD	PANASONIC - ECG	ERJ-3GSYJ102V	DIGIKEY	P1.0KGCT-ND	603	Surface Mount
50	132	2	R2, R4	47K	RES 47K 1/16W 5% 0603 SMD	PANASONIC - ECG	ERJ-3GSYJ473V	DIGIKEY	P47KGCT-ND	603	Surface Mount
51	132	1	R3	4.7K	RES 4.7K 1/16W 5% 0603 SMD	PANASONIC - ECG	ERJ-3GSYJ472V	DIGIKEY	P4.7KGCT-ND	603	Surface Mount
52	132	2	R5, R9	10K	RES 10K 1/16W 5% 0603 SMD	PANASONIC - ECG	ERJ-3GSYJ103V	DIGIKEY	P10KGCT-ND	603	Surface Mount
53	132	1	R6	1.00K-1%	RES 1.00K OHM 1/10W 1% 0603 SMD	YAEGO	RC0603FR-071KL	DIGIKEY	311-1.00KHRCT-ND	603	Surface Mount
54	132	1	R7	5.49K-1%	RES 5.49K OHM 1/10W 1% 0603 SMD	ROHM	MCR03EZPFX5491	DIGIKEY	RHM5.49KHCT-ND	603	Surface Mount
55	132	1	R10	360_OHM	RES 360_OHM 1/10W 5% 0805 SMD	PANASONIC - ECG	ERJ-6GEYJ361V	DIGIKEY	P360ACT-ND	805	Surface Mount
56	132	1	R11	340_OHM-1%	RES 340 OHM 1/10W 1% 0805 SMD	PANASONIC - ECG	ERJ-6ENF3400	DIGIKEY	P340CCT-ND	805	Surface Mount
57	132	1	RP1	10K-16P8R	RESISTOR ARRAY	CTS-BERNE	742C163103JPTR	DIGIKEY	742C163103JPCT-ND	CTS742-8	Surface Mount
58	132	1	S1	SW_PB	SWITCH PUSHBUTTON	OMRON	B3SN-3012P	DIGIKEY	SW261CT-ND	PB_SW-SM	Surface Mount
59	132	1	U1	NJM#2865F3-33	IC LDO VOLT REG 3.3V 100MA SC88A	NJR	NJM#2865F3-33-TE1	DIGIKEY	NJM#2865F333TE1CT-ND	SC-88A	Surface Mount

60	132	1	U2	LM340MP-5.0-S	IC +5V 1A VOLTAGE REG SOT223	NATIONAL	LM340MP-5.0	DIGIKEY	LM340MP-5.0CT-ND	SOT223	Surface Mount
61	132	2	U3, U5	74HCT04	IC LOGIC HEX INVERTER	TEXAS INSTRUMENTS	CD74HCT04M	MOUSER	595-CD74HCT04M	SO14	Surface Mount
62	132	1	U4	P89LPC932A1F	IC 80C51 MCU FLASH 8K 28-PLCC	NXP SEMICONDUCTORS	P89LPC932A1FA	DIGIKEY	568-4279-5-ND	PLCC28	Socketed
63	132	1	U6	DS1233A	IC ECONORESET 3.3V 15% SOT-223	DALLAS	DS1233AZ-15+	DIGIKEY	DS1233AZ-15+-ND	SOT223/243	Surface Mount
64	132	1	U7	LM2595-ADJ	IC REG SIMPLE SWITCHER TO-263-5	NATIONAL SEMI	LM2595S-ADJ	DIGIKEY	LM2595S-ADJ-ND	TO263-5	Surface Mount
65	132	1	U8	HMC542LP4	6-BIT DIGITAL SERIAL CONTROL ATTENUATOR, DC - 3.0 GHz	HITTITE	HMC542LP4	HITTITE	HMC542LP4	LP4	Surface Mount
66	132	1	U9	RF3809	HBT PRE-DRIVER AMPLIFIER	RFMD	RF3809	RFMD	RF3809SR (min/mult 100)	RF3809	Surface Mount
67	132	1	U10	RF3807	HBT PRE-DRIVER AMPLIFIER	RFMD	RF3807	RFMD	RF3807SR (min/mult 100)	RF3809	Surface Mount
68	132	1	PCB		4 layer	Advanced Circuits	PB-0132-01 rev A	Advanced Circuits	PB-0132-01		PCB

PCB Assembly PA-0133-01

Item	Quant Part Reference		Value	Description	Manufacturer	Manufacturer Part Num	Supplier	Supplier Part Number	PCB Footprint	
1	133	1 DC1	10UF-16V	CAPACITOR TANTALUM	KEMET	T491A106M016AT	DIGIKEY	399-3687-1-ND	EIA-TANT-A1	Surface Mount
DISP1, DISP2, DISP3, DISP4, DISP5, DISP6, DISP7, DISP8										
2	133	8	LED-7SEG	LED 7-SEG .3" RED 632NM CC	LITE-ON	LSHD-7503	DIGIKEY	160-1570-5-ND	LSHD-7503	Through Hole
3	133	1 JP1	HDR_5	5 CIRCUIT HEADER .100 STRAIGHT	SULLINS	PPPC051LFBN-RC	DIGIKEY	S7038-ND	SIP-5P	Through Hole
4	133	1 R1	10K	RES 10K 1/16W 5% 0603 SMD	PANASONIC - ECG	ERJ-3GSYJ103V	DIGIKEY	P10KGCT-ND	603	Surface Mount
5	133	1 R2	1.0_OHM	RES 1.0_OHM 1/16W 5% 0603 SMD	PANASONIC - ECG	ERJ-3GSYJ1R0V	DIGIKEY	P1.0GCT-ND	603	Surface Mount
6	133	1 U1	MAX7221	IC DRIVER LED DISP 8DGT 24-SOIC	MAXIM	MAX7221CWG	DIGIKEY	MAX7221CWG-ND	SO24WB	Surface Mount
7	133	1 PCB		2 layer	Advanced Circuits	PB-0133-01 rev A	Advanced Circuits	PB-0133-01		PCB

PCB Assembly PA-0134-01

Item	Quant Part Reference		Value	Description	Manufacturer	Manufacturer Part Num	Supplier	Supplier Part Number	PCB Footprint	
1	134	1 JP1	HDR_8	8 CIRCUIT HEADER .100 STRAIGHT	SULLINS	NPTC081KFXC-RC	DIGIKEY	S5600-ND	SIP-8P	Through Hole
2	134	4 SW1, SW2, SW4, SW5	10MM_DOME	10 MM TACTILE DOME 340GM FORCE	SNAPTRON	F10340	SNAPTRON	F10340	10MM-DOME	Through Hole
3	134	2 SW3, SW6	12MM_DOME	12 MM TACTILE DOME 340GM FORCE	SNAPTRON	F12340	SNAPTRON	F12340	12MM-DOME	Through Hole
4	134	1 SW7	350X700_OVALI	.35" X .70" OBLONG TACTILE DOME 340GM FORCE	SNAPTRON	E.35-ONN-340	SNAPTRON	E.35-ONN-340	35OVAL-DOME	Through Hole

Mechanical Components

1	1	Overlay	Maverick Label - Custom	Maverick Label	LB03300101	Maverick Label	LB03300101
2	1	Case	Extruded Aluminum Case	Encl&Cases	3501K-4"	Encl&Cases	3501K-4"
3	1	EMI Shiled	0.002 Copper Foil Shield - Die Cut	Orion Industirs			