

Qty	Manufacturer Part Number	Schematic part name / value	Schematic Designator	Description	Manufacturer	Package Type	Digi-Key Part Number	Part Number	Other distributor & part number
<b>Resistors</b>									
1	ERJ-3GEY0R00V	0R	R1	0 Ohm 1/10W	Panasonic	0603R	P0.0GCT-ND	2059527	
2	ERJ-3KEF10R0V	10R	R2,R3	10 Ohm 1/10W 1%	Panasonic	0603R	P10.0HCT-ND	2302958	
1	ERJ-3KEF47R0V	47R	R4	47 Ohm 1/10W 1%	Panasonic	0603R	P47.0HCT-ND	2303030	
3	ERJ-3KEF1200V	120R	R5 to R7	120 Ohm 1/10W 1%	Panasonic	0603R	P120HCT-ND	2303067	
12	ERJ-3KEF3900V	390R	R8 to R19	390 Ohm 1/10W 1%	Panasonic	0603R	P390HCT-ND	2303111	
1	ERJ-3KEF8200V	820R	R20	820 Ohm 1/10W 1%	Panasonic	0603R	P820HCT-ND	2303136	
5	ERJ-3KEF1501V	1.5k	R21 to R25	1.50K Ohm 1/10W 1%	Panasonic	0603R	P1.50KHCT-ND	2303156	
2	ERJ-3KEF2701V	2.7k	R26,R27	2.70K Ohm 1/10W 1%	Panasonic	0603R	P2.70KHCT-ND	2303171	
5	ERJ-3KEF3301V	3.3k	R28 to R32	3.30K Ohm 1/10W 1%	Panasonic	0603R	P3.30KHCT-ND	2303173	
2	ERJ-3KEF6801V	6.8k	R33,R34	6.80K Ohm 1/10W 1%	Panasonic	0603R	P6.80KHCT-ND	2303185	
1	ERJ-3KEF2202V	22k	R35	22.0K Ohm 1/10W 1%	Panasonic	0603R	P22.0KHCT-ND	2303201	
5	ERJ-3KEF3302V	33k	R36 to R40	33.0K Ohm 1/10W 1%	Panasonic	0603R	P33.0KHCT-ND	2303204	
2	ERJ-3KEF2203V	220k	R41,R42	220K Ohm 1/10W 1%	Panasonic	0603R	P220KHCT-ND	2397798	
<b>Capacitors</b>									
2	C0603C479C5GACTU	4.7p	C1 to C4	Ceramic 4.7pF 50V COG/NPO +/-0.25pF	Kemet	0603	399-7937-1-ND	1414645	
2	C0603C180J5GACTU	18p	C5,C6	Ceramic 18pF 50V COG/NPO 5%	Kemet	0603	399-1052-1-ND	1414620	
2	C0603C471J5GACTU	470p	C7,C8	Ceramic 470pF 50V COG/NPO 5%	Kemet	0603	399-7922-1-ND	1414640	
2	C0603C682K5RACTU	6.8n	C9,C10	Ceramic 6.8nF 50V X7R 10%	Kemet	0603	399-1089-1-ND	1414649	
3	C0603C103K5RACTU	10n	C11 to C13	Ceramic 10nF 50V X7R 10%	Kemet	0603	399-1091-1-ND	1414609	
2	C0603C473K5RACTU	47n	C14,C15	Ceramic 47nF 50V X7R 10%	Kemet	0603	399-7933-1-ND	1414643	
20	C0603C104K5RACTU	100n	C16 to C35	Ceramic 100nF 50V X7R 10%	Kemet	0603	399-5089-1-ND	1288255	
7	C1608X5R1E105K080AC	1u/25V/X5R	C36 to C42	Ceramic 1.0uF 25V X5R 10%	TDK	0603	445-5146-1-ND	2346891	
4	C1608X5R1V225K080AC	2.2u/35V	C43 to C46	Ceramic 2.2uF 35V X5R 10%	TDK	0603	445-8025-1-ND	2211185	
4	C0603C475G9PACTU	4.7u/6.3v	C47 to C50	Ceramic 4.7uF 6.3V X5R 10%	Kemet	0603	399-3482-1-ND	9227784	
1	GRM188R60J106KE47D	10u/6.3V	C51	Ceramic 10uF 6.3V X5R 10%	Murata	0603	490-12538-1-ND	2494230	
2	TPSB226K006R0375	22u/6.3V	C52,C53	Tantalum 22uF 6.3V 10%	AVX	3528-21	478-9063-1-ND	2283862	
2	TAJA336K006RNJ	33u/6.3V	C54,C55	Tantalum 33uF 6.3V 10%	AVX	3216-18	478-1666-1-ND	1432348	
1	T495X476K035ATE300	47u/35V	C56	Tantalum 47uF 35V 10%	Kemet	7343-43	399-3905-1-ND	1692408	
1	T495X108K006ATE100	1000u/6.3v	C57	Tantalum 1000uF 6.3V 10% 100 mOhm ESR	Kemet	7343-43	399-11395-1-ND	2332459	
<b>Inductors</b>									
2	SRP6540-100M	10u	L1,L2	10µH Shielded Wirewound Inductor 4A 78.5 mOhm	Bourns	7.2x6.5mm	SRP6540-100MCT-ND	2309904	
<b>Semiconductors</b>									
1	MPU-9250	MPU-9250	IC1	Nine-Axis MEMS MotionTracking Device	Invensense	QFN24	1428-1019-1-ND	-	RadioSpares # 883-7942
1	MS5611-01BA03	MS5611-01BA03	IC10	Barometric Pressure Sensor	Measurement Specialties	-	223-1621-ND	2362662	
1	MAX3051EKA+T	MAX3051EKA	IC11	Low Supply Current CAN Transceiver	Maxim Integrated	SOT23-8	MAX3051EKA+TCT-ND	2517387	
1	TPS2051BDBV	TPS2051BDBV	IC12	Current Limited Power Distribution Switch 500mA	Texas Instruments	SOT23-5	296-21265-1-ND	2296067	
1	4525DO-DS5A1001DP	MS4525DO-DS5A1001DP	IC13	1 PSI Differential Pressure Sensor	Measurement Specialties	DIP8	223-1110-ND	-	
1	TPS55386PWP	TPS55386	IC2	Dual 3A Non-Synchronous Buck Regulator	Texas Instruments	TSSOP16	296-23850-1-ND	1684753	
2	TPS73633DBV	TPS73633DBV	IC3,IC4	400mA 3.3V Low-Dropout Regulator	Texas Instruments	SOT23-5	296-27064-1-ND	1207346	
1	LM3940IMP-3.3/NOBP	LM3940IMP-3.3	IC5	1A low dropout regulator for 5V to 3.3V conversion	National Semicond.	SOT223	LM3940IMP-3.3CT-ND	1469104	
1	STM32F767VIT6	STM32F767VIT6	IC6	Microcontroller 32-Bit 216MHz 2MB Flash	STMicroelectronics	LQFP100	497-16643-ND	2535500	
1	TPS70950DBVT	TPS70950DBV	IC7	150mA 30V Voltage Regulator	Texas Instruments	SOT23-5	296-35484-1-ND	2382996	
2	PCA9306DCU	PCA9306DCU	IC8,IC9	Dual Bidirectional I2C Bus Voltage Level Translator	Texas Instruments	VSSOP8	296-39140-1-ND	1053573	
2	PMEG4050ETP	PMEG4050ETP	D1,D2	40 V 5 A low VF Schottky barrier rectifier	IXYS	SOD128	568-7408-1-ND	2114792	
2	PMEG2010AEB	PMEG2010EB	D3,D4	20 V 1 A ultra low VF Schottky barrier rectifier	IXYS	SOD523	568-6502-1-ND	8737878	
1	APT1608SURCK	KP-1608SURCK	LED1	SMD Chip Red LED Lamp	Kingbright	0603	754-1123-1-ND	2290329	
1	APT1608SECK	KP-1608SECK	LED2	SMD Chip Orange LED Lamp	Kingbright	0603	754-1120-1-ND	8529850	
1	APT1608CGCK	KP-1608CGCK	LED3	SMD Chip Green LED Lamp	Kingbright	0603	754-1116-1-ND	2290328	
1	APT1608SYCK	KP-1608SYCK	LED4	SMD Chip Yellow LED Lamp	Kingbright	0603	754-1124-1-ND	2290330	
1	ACSC02-41SURKWA-F01	KCSC02-105	DIS1	0.2" Digit Red SMD Display	Kingbright	-	754-1405-1-ND	2001750	
<b>Connectors</b>									
1	USB3145-30-1-A	MICRO USB B	J1	USB Receptacle Type B Through Hole Vertical	Global Connector Technology	-	-	2443141	
1	503182-1853	MICROSD 503182-0153	J2	Connector microSD Memory Card	Molex	-	WM9750CT-ND	2334075	
1	TSW-112-25-F-T-RA	SRV-RC-BEC	J3	12 Positions 0.1" Triple Row Right Angle Through Hole Header	Samtec	-	894-70-036-20-002101-ND	2053756	
1	TSM-105-01-F-SH	MODEM	J4	5 Positions 0.1" Horizontal SMD Header	Samtec	-	SAM10283-ND	1803456	
1	M20-9990245	VBAT	J5	2 Positions 0.1" Vertical Through Hole Header	Harwin	SIL2	952-2261-ND	1022245	
2	M20-9990445	CAN, USB	J6,J7	4 Positions 0.1" Vertical Through Hole Header	Harwin	SIL4	952-2265-ND	1022250	
5	M20-9990545	I2C2,GPS,UART1_COMP,I2C2-5V	J8 to J12	5 Positions 0.1" Vertical Through Hole Header	Harwin	SIL5	952-2267-ND	1022252	
1	M20-9990645	SWD	J13	6 Positions 0.1" Vertical Through Hole Header	Harwin	SIL6	952-2269-ND	1022254	
4	M20-9990745	UART2,SP1,AUX1,AUX2	J14 to J17	7 Positions 0.1" Vertical Through Hole Header	Harwin	SIL7	M20-9990745-ND	-	
1	53047-0210	VBAT	J18	Picoblade 2 pins 1.25mm straight header	Molex	-	WM1731-ND	9733051	
3	53047-0410	I2CS-TP,CAN,USB	J19 to J21	Picoblade 4 pins 1.25mm straight header	Molex	-	WM1733-ND	9733060	
5	53047-0510	UART1_COMP,I2C2,I2C2-5V,GPS	J22 to J26	Picoblade 5 pins 1.25mm straight header	Molex	-	WM1734-ND	9732861	
1	53047-0610	SWD	J27	Picoblade 6 pins 1.25mm straight header	Molex	-	WM1735-ND	9733078	
4	53047-0710	AUX1,AUX2,SP1,UART2	J28 to J31	Picoblade 7 pins 1.25mm straight header	Molex	-	WM1736-ND	9732870	
1	53048-0510	MODEM	J32	Picoblade 5 pins 1.25mm right angle header	Molex	-	WM1745-ND	9732926	
2	M22-7131042	XBP24-A	M1	10 Positions 2.00mm Receptacle Through Hole	Harwin	-	952-1354-5-ND	1109732	
<b>Other</b>									
1	8Z-16.000MAAJ	8Z-16MHz	Q1	Crystal 16.000MHZ 18pF	TXC	2.5x2.0mm	887-1142-1-ND	1842186	
1	FC-135 32.7680KA-AC	FC135-32.768KHz-9pF	Q2	Crystal 32.768kHz 9pF	Epson	3.2x1.5mm	FC-135 32.7680KA-AC-ND	1278037	
1	MNT-103-BK-G	-	-	6 (2 x 3) Position Shunt Connector 0.100"	Samtec	-	SAM10620-ND	1803544	
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