

PatchKeeper_V1.0

Designator	Comment	Quantity	Footprint	Description
C1, C2	GJM1555C1H120GB01D	2	CAPC0402(1005)60_L	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0402 12pF 50Volts COG 2%
C13, C14	CAP 1uF 16V 0402(1005)	2	CAPC0402(1005)60_L	CAP 1uF 16V ±10% 0402 (1005 Metric) Thickness 0.6mm SMD
C15, C17	GRM155R71E473KA88D	2	CAPC0402(1005)60_L	Chip Capacitor, 47 nF, +/- 10%, 25 V, -55 to 125 degC, 0402 (1005 Metric), RoHS, Tape and Reel
C16	10 uF	1	CAPC0603(1608)100_L	Capacitor, 0603, X7R, ±10%
C19	1.5nF 25V 0402(1005)	1	CAPC0402(1005)60_L	CAP 1.5nF 25V ±5% 0402 (1005 Metric) Thickness 0.6mm SMD
C20, C21	GRM1557U1A302JA01D	2	CAPC0402(1005)60_L	0402, 3000 pF, 10V, U2J, 5%, -55C - 125 C
C22, C23, C24, C25	GRM155R71H222KA01D	4	CAPC0402(1005)60_L	Chip Capacitor, 2.2 nF, +/- 10%, 50 V, -55 to 125 degC, 0402 (1005 Metric), RoHS, Tape and Reel
C3	4.7uF	1	CAPC1608X06L	CAP 4.7uF 10V ±20% 0603 (1608 Metric) Thickness 0.55mm SMD
C34, C39, C44, C49	CAP 100nF 16V 0603(1608)	4	CAPC0603(1608)100_L	CAP 100nF 16V ±5% 0603 (1608 Metric) Thickness 1mm SMD
C35, C40, C45, C50	CAP 510pF 50V 0603(1608)	4	CAPC0603(1608)100_L	CAP 510pF 50V ±5% 0603 (1608 Metric) Thickness 1mm SMD
C4	10 uF	1	CAPC1608X06L	Capacitor, 0603, X7R, ±10%
C5, C10, C12, C18, C26, C27, C28, C29, C30, C32, C33, C37, C38, C42, C43, C47, C48	CAP 100nF 16V 0402(1005)	17	CAPC0402(1005)60_L	CAP 100nF 16V ±10% 0402 (1005 Metric) Thickness 0.6mm SMD, CAP 100nF 16V ±20% 0402 (1005 Metric) Thickness 0.6mm SMD
C6	CAP 4.7uF 10V 0603(1608)	1	CAPC1608X06L	CAP 4.7uF 10V ±20% 0603 (1608 Metric) Thickness 0.55mm SMD
C7	CAP 4.7uF 16V 0805(2012)	1	CAPC0805(2012)155_L	CAP 4.7uF 16V ±10% 0805 (2012 Metric) Thickness 1.55mm SMD
C8	CAP 10uF 16V 1206(3216)	1	CAPC1206(3216)130_L	CAP 10uF 16V ±20% 1206 (3216 Metric) Thickness 1.3mm SMD
C9, C11, C31, C36, C41, C46, C51	CAP 1uF 25V 0603(1608)	7	CAPC0603(1608)100_L	CAP 1uF 25V ±10% 0603 (1608 Metric) Thickness 1mm SMD
FB1	600R/0.5A	1	INDC1608X06L	Ferrite Bead, 0603, 600 Ohm @ 100MHz, 500mA, 380 mOhm Max
JUM	N. M.	1	JUMPER 0603 CON	Jumper with one side connected, the other side can be connected with 0603 0 ohm.
L1	DFE252012F-100M=P2	1	INDC2520X120N	Fixed Inductors 10uH 480mOhms 1.4A 2.5x2.0mm 20%
LED	APT1608SRCPRV	1	LED_0603	LED Super Bright Red, 75 mW, 5 V, -40 to 85 degC, 2-Pin SMD, RoHS, Tape and Reel
P2	Pin List 1x2	1	LIST_1X2-NC_SMALL	Pin List 1x2, 2.54mm (100mil)
Q1	DMC2400UV	1	SOTFL50P162X60-6N	Dual N & P Ch MOFET, 1.03A/0.7A, 480mOhm, 450mW
R1	470R 1% 0603(1608)	1	RESC0603(1608)_L	470R 0.1W 1% 0603 (1608 Metric) SMD
R10	ERJ-2GE0R00X	1	RESC1005X40X25LL05T05	Chip Resistor, 0 Ohm, +/- 5%, 100 mW, -55 to 155 degC, 0402 (1005 Metric), RoHS, Tape and Reel
R11	1M 1% 0402(1005)	1	RESC1005X40X25LL05T05	1M 0.063W 1% 0402 (1005 Metric) SMD
R13, R14	40K2 1% 0402(1005)	2	RESC1005X40X25LL05T05	40K2 0.063W 1% 0402 (1005 Metric) SMD
R15, R16	51K 5% 0402(1005)	2	RESC1005X40X25LL05T05	51K 0.063W 5% 0402 (1005 Metric) SMD
R17, R18, R19, R20	10M 1% 0402(1005)	4	RESC1005X40X25LL05T05	10M 0.063W 1% 0402 (1005 Metric) SMD
R2	RMCF0603FT10K0	1	RESC0603(1608)_L	Chip Resistor, 10 Kohm, +/- 1%, 0.1 W, -55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel
R21	100R 1% 0402(1005)	1	RESC0402(1005)_L	100R 0.063W 1% 0402 (1005 Metric) SMD
R22, R23	39R2 1% 0402(1005)	2	RESC0402(1005)_L	39R2 0.063W 1% 0402 (1005 Metric) SMD
R24, R31, R37, R44	1K 1% 0603(1608)	4	RESC0603(1608)_L	1K 0.1W 1% 0603 (1608 Metric) SMD
R25	2K74 1% 0603(1608)	1	RESC0603(1608)_L	2K74 0.1W 1% 0603 (1608 Metric) SMD
R26, R27	27K4 1% 0603(1608)	2	RESC0603(1608)_L	27K4 0.1W 1% 0603 (1608 Metric) SMD
R28	80K6 1% 0603(1608)	1	RESC0603(1608)_L	80K6 0.1W 1% 0603 (1608 Metric) SMD
R29	200K, 1% 0603	1	RESC0603(1608)_L	200K 0.1W 1% 0603 (1608 Metric) SMD
R3, R4	1M 1% 0402(1005)	2	RESC0402(1005)_L	1M 0.063W 1% 0402 (1005 Metric) SMD
R30, R36, R43, R50	100R 1% 0603(1608)	4	RESC0603(1608)_L	100R 0.1W 1% 0603 (1608 Metric) SMD
R32, R33, R34, R35, R41, R42, R48, R49	200K 1% 0603(1608)	8	RESC0603(1608)_L	200K 0.1W 1% 0603 (1608 Metric) SMD
R38, R45	1K02 1% 0603(1608)	2	RESC0603(1608)_L	1K02 0.1W 1% 0603 (1608 Metric) SMD
R39, R40, R46, R47	10K 1% 0603(1608)	4	RESC0603(1608)_L	10K 0.1W 1% 0603 (1608 Metric) SMD
R5, R51	10K 1% 0402(1005)	2	RESC0402(1005)_L	10K 0.063W 1% 0402 (1005 Metric) SMD
R6	21K5 1% 0402(1005)	1	RESC0402(1005)_L	21K5 0.063W 1% 0402 (1005 Metric) SMD
R7, R8	10K 1% 0402(1005)	2	RESC1005X40X25LL05T05	10K 0.063W 1% 0402 (1005 Metric) SMD
R9, R12	100K 1% 0402(1005)	2	RESC1005X40X25LL05T05	100K 0.063W 1% 0402 (1005 Metric) SMD
RGB	LED RGB	1	LED_RGB_0606	RGB LED 1.60 mm x 1.60 mm SMD
RST	=Value	1	TP_SMD_Ø1.2MM	SMD testpad of various size
SD	DM3AT-SF-PEJM5	1	DM3AT-SF-PEJM5	Connector
SW1		1	SWITCH_091029001	SPDT slide Switch, TH
T2	Pin List 1x2	1	LIST_1X2-1.27	Pin List 1x2, 2.54mm (100mil)
TR1	TC42X-2-204E	1	TC42X2103E	Trimmer Resistors - SMD 200K 2mm SMD Single Turn
U1	BT840	1	XCVR_BT840	Bluetooth LE Module, Nordic nRF52840 SoC, Range 180 meters
U2	MCP73831T-2ACI/OT	1	SOT-23-OT5_L	Miniature Single-Cell, Fully Integrated Li-Ion, Li-Polymer Charge Management Controller, 4.2V, 5-Pin SOT-23, Industrial Temperature, Tape and Reel
U3	LM3670MF-3.3/NOPB	1	DBV0005A_N	Miniature Step-Down DC-DC Converter for Ultra Low Voltage Circuits, 5-pin SOT-23, Pb-Free
U4	ADS1292RIPBS	1	TI-PBS32_L	2-Channel, 24-Bit ADC with Integrated Respiration Impedance and ECG Front End, -40 to 85 degC, 32-pin QFP (PBS32), Green (RoHS & no Sb/Br)
U5	BMI160	1	BMI160-LGA14	BMI160
U6	MP34DB02	1	RHLGA-4 (3X4X1MM)	MEMS audio sensor omnidirectional digital microphone
U7, U8, U9, U10	INA338AIDGSTG4	4	TI-DGS10_L	Wide-Temperature, Precision Instrumentation Amplifier with Shutdown, -40 to 125 degC, 10-pin SOP (DGS10), Green (RoHS & no Sb/Br)
USB	MicroUSB-B	1	USB-MICRO-B-RA-SMD-PIP	MicroUSB-B-SMT
VR1, VR2, VR3, VR4	LM4050AEM3-2.0	4	DBZ0003A_L	Precision Micropower Shunt Voltage Reference, 3-pin SOT-23
X1	32.768kHz	1	XTAL_2012	XTAL SMD 2012, 32.768kHz, 9pF, ±20ppm