

Arduloop RELEASED

BATTERY

USB

SDCARD

CHARGER

MCU

LED STRING

LDO

FIRMWARE

AUDIO

IMU

SWITCH

Title Arduloop			
Size B	Number RELEASED	Revision V1.2	
Date: 4/22/2016	Sheet of C:\Users\Arduloop\SchDoc		Drawn By: Arthur Benemann

Quantity	Description	Designator	Footprint	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
1	HDPE TUBE 1" OD, 7/8" ID White 10 ft	MEC11		Supplier disabled	Supplier disabled	McMaster	50375K58
1	HEAT-SHRINK 3/16" ID Before, 3/32" ID After, 4' Length	MEC12		Supplier disabled	Supplier disabled	McMaster	7856K14
1	WIRE AWG24 2 conductors	MEC13		Supplier disabled	Supplier disabled	McMaster	9697T1
1		J2	Molex 47346-0001	Molex, LLC	473460001	Digi-Key	WM17141CT-ND
1	CAP CER 2200PF 50V X7R 0603	C18	C0603	Murata Electronics North America	GRM188R71H222KA01D	Digi-Key	490-1500-1-ND
1	CONN MICRO SD CARD PUSH-PUSH R/A	J3	USD_DM3AT	Hirose Electric Co Ltd	DM3AT-SF-PEJM5	Digi-Key	HR1964CT-ND
1	CRYSTAL 16.000MHZ 18PF SMD	X1	SMD4_3.2x2.50mm_ABM8	Abracon LLC	ABM8-16.000MHZ-B2-T	Digi-Key	535-9134-1-ND
1	GYRO/ACCELEROMETER 6AXIS 24QFN	U5	QFN24_4X4X0.9mm	InvenSense	MPU-6050	Digi-Key	1428-1007-1-ND
1	IC LI-ION/LI-POLY CTRLR SOT23-5	U3	SOT-23-5	Microchip Technology	MCP73832T-2ATI/OT	Digi-Key	MCP73832T-2ATI/OTCT-ND
1	IC MCU 8BIT 32KB FLASH 44TQFP	U4	ATMEL-TQFP44_ml	Atmel	ATMEGA32U4-AUR	Digi-Key	ATMEGA32U4-AURCT-ND
1	IC REG LDO 3.3V 0.5A SOT23-5	U1	SOT-23-5	Microchip Technology	MIC5219-3.3YM5-TR	Digi-Key	576-1281-1-ND
1	MIC MEMS ANALOG OMNI -22DB	U2	SPU0414HR5H	Knowles	SPU0414HR5H-SB-7	Digi-Key	423-1134-1-ND
1	MOSFET P-CH 30V 5.8A 8-SOIC	Q1	SO-8	Infineon Technologies Americas Corp.	IRF7406TRPBF	Digi-Key	IRF7406PBFCT-ND
1	SWITCH TACTILE SPST-NO 0.02A 15V	SW1	EVPAEJB2A	Panasonic Electronic Components	EVP-AEJB2A	Digi-key	P17697CT-ND
12	CAP CER 0.1UF 16V X7R 0603	C2, C3, C6, C7, C8, C10, C12, C14, C17, C19, C20, C21	C0603	Murata Electronics North America	GRM188R71C104KA01D	Digi-Key	490-1532-1-ND
2	CAP CER 22PF 50V NP0 0603	C11, C16	C0603	Murata Electronics North America	GRM1885C1H220JA01D	Digi-Key	490-1411-1-ND
2	CONN HEADER 5POS 1.25MM R/A TIN	J1, J4	DF13A-5P-1.25H	Hirose Electric Co Ltd	DF13A-5P-1.25H(20)	Digi-Key	H3370-ND
2	DF13 housing 5pos	MEC7, MEC10		Hirose Electric Co Ltd	DF13-5S-1.25C	Digi-Key	H2182-ND
5	CAP CER 1UF 16V X7R 0603	C1, C5, C9, C13, C15	C0603	Murata Electronics North America	GRM188R71C105KA12D	Digi-Key	490-3900-1-ND
5	RES SMD 22 OHM 1% 1/10W 0603	R4, R8, R9, R16, R17	R0603	Yageo	RC0603FR-0722RL	Digi-Key	311-22.0HRCT-ND
7	RES SMD 2.2K OHM 1% 1/10W 0603	R1, R5, R10, R11, R12, R13, R18	R0603	Yageo	RC0603FR-072K2L	Digi-Key	311-2.20KHRCT-ND
8	RES SMD 100K OHM 1% 1/10W 0603	R2, R3, R6, R7, R14, R15, R19, R20	R0603	Yageo	RC0603FR-07100KL	Digi-Key	311-100KHRCT-ND
9	DF13 pre-crimped 5" wire	MEC1, MEC2, MEC3, MEC4, MEC15, MEC16, MEC17, MEC18, MEC19		Hirose Electric Co Ltd	H4BXG-10105-W6	Digi-Key	H4BXG-10105-W6-ND
1	LED Strip WS2812B 60 LEDs/meter	MEC9		Supplier disabled	Supplier disabled	Amazon	B00LUAKB62
1	Sandisk 4GB microSDHC Card Class 2	MEC14		Supplier disabled	Supplier disabled	Amazon	B002T8GP8M
2	Tenergy Li-Ion 18650 3.7V 2600mAh	MEC5, MEC6		Supplier disabled	Supplier disabled	Amazon	B003U7SUUM
1	FIRMWARE	FIRM1					
1	PCB	MEC8					