

ASSEMBLY	SUB ASSEMBLY	PART	DESCRIPTION	MFG.	MFG. PART NO.	SUPPLIER	SUPPLIER PART NO.	QTY /UNIT
MAIN UNIT	-	EXTRUSION	BOX ALUM NATURAL 4.72"X3.07"W	HAMMOND MANUFACTURING	1455J1201	DIGIKEY	HM890-ND	1
MAIN UNIT	-	JUMPER	JUMPER W/TEST PNT 1X2PINS 2.54MM	WÜRTH ELEKTRONIK	60900213421	DIGIKEY	732-2678-ND	1
MAIN UNIT	-	M5X0.8 35MM LONG HEX CAP SCREW	SUPER-CORROSION-RESISTANT 316 STAINLESS STEEL SOCKET HEAD SCREW; M5 X 0.8 MM THREAD, 35 MM LONG			MCMMASTER	92290A256	2
MAIN UNIT	-	POWER SWITCH	SWTCH ROCKER SPST 10A 125V	E-SWITCH	R6ABLKBLKFF	DIGIKEY	EG1526-ND	1
MAIN UNIT	-	QUICK CONNECT CABLE CRIMP	CONN QC RCPT 14-18AWG 0.187	TE CONNECTIVITY	63316-2	DIGIKEY	A100922CT-ND	4
MAIN UNIT	-	RECEPTCLE SLEEVE	CONN RCPT SLEEVE 0.187 IPOS CLR	TE CONNECTIVITY	3-170823-8	DIGIKEY	A124425-ND	4
MAIN UNIT	-	RIBBON CABLE	CABLE ASSEM .05" 10POS F-F 2"	SAMTEC INC.	FFSD-05-D-02.00-01-N	DIGIKEY	SAM8217-ND	1
MAIN UNIT	-	THREAD LOCKER	ADJUSTABLE THREAD LOCKER, 0.54 OZ., CAN	LOCTITE	222	MCMMASTER	1810A27	0.01
MAIN UNIT	-	SIDE PANEL 1		LASER CUT				1
MAIN UNIT	-	SIDE PANEL 2		LASER CUT				1
MAIN UNIT	MAIN BOARD	MAIN BOARD PCB	MAIN BOARD PRINTED CIRCUIT BOARD	OSHPARK		OSHPARK		1
MAIN UNIT	MAIN BOARD	(-). (+)	DIGIKEY PART NO. WM6456-ND	MOLEX	197084011	DIGIKEY	WM6456-ND	2
MAIN UNIT	MAIN BOARD	ADXL375_1, ADXL375_2	DIGIKEY PART NO. RJCSE538001CT-	AMPHENOL ICC (COMMERCIAL PRODUCTS)	RJCSE538001	DIGIKEY	RJCSE538001CT-ND	2
MAIN UNIT	MAIN BOARD	BAT_1, BAT_2	PH SERIES 2 POSITION 2 MM PITCH	JST SALES AMERICA INC.	S2B-PH-SM4-TB(LF)(SN)	DIGIKEY	455-1749-1-ND	2
MAIN UNIT	MAIN BOARD	C1, C20, C21, C22, C23, C5	CAP CER 0.1UF 25V X7R 0805	KEMET	C0805C104K3RACTU	DIGIKEY	399-1168-1-ND	6
MAIN UNIT	MAIN BOARD	C15, C16	CAP CER 1UF 16V X7R 0805	KEMET	C0805C105K4RACTU	DIGIKEY	399-1284-1-ND	2
MAIN UNIT	MAIN BOARD	C17, C18, C19	CAP CER 4.7UF 6.3V X5R 0805	KEMET	C0805C475K9PACTU	DIGIKEY	399-3134-1-ND	3
MAIN UNIT	MAIN BOARD	C2, C8	CAP CER 2PF 250V COG/NP0 0805	KEMET	CBR08C209BAGAC	DIGIKEY	399-8701-1-ND	2
MAIN UNIT	MAIN BOARD	C3, C4	CAP CER 24PF 250V COG/NP0 0805	KEMET	CBR08C240JAGAC	DIGIKEY	399-8758-1-ND	2
MAIN UNIT	MAIN BOARD	C6, C7	CAP CER 2.2UF 10V X7R 0805	KEMET	C0805C225K8RCAUTO	DIGIKEY	399-6951-1-ND	2
MAIN UNIT	MAIN BOARD	C9	CAP CER 10UF 10V X5R 0805	KEMET	C0805C106K8PACTU	DIGIKEY	399-4925-1-ND	1
MAIN UNIT	MAIN BOARD	D1	DIODE SCHOTTKY 20V 1A SOD123W	NEXPERIA USA INC.	PMEG2010ER,115	DIGIKEY	1727-5192-1-ND	1
MAIN UNIT	MAIN BOARD	J1	CONN RCPT USB2.0 MINI B SMD R/A	MOLEX	675031020	DIGIKEY	WM5461CT-ND	1
MAIN UNIT	MAIN BOARD	JP1	CONN HEADER VERT 3POS 2.54MM	WÜRTH ELEKTRONIK	61300311121	DIGIKEY	732-5316-ND	1
MAIN UNIT	MAIN BOARD	L1	120 OHMS @ 100MHZ 1 FERRITE BE	VISHAY DALE	ILHB0805ER121V	DIGIKEY	541-2299-1-ND	1
MAIN UNIT	MAIN BOARD	LED_BLU	LED BLUE CLEAR 0805 SMD	WÜRTH ELEKTRONIK	150080BS75000	DIGIKEY	732-4982-1-ND	1
MAIN UNIT	MAIN BOARD	LED_GRN	LED GREEN CLEAR 0805 SMD	WÜRTH ELEKTRONIK	150080VS75000	DIGIKEY	732-4986-1-ND	1
MAIN UNIT	MAIN BOARD	LED_RED	LED RED CLEAR 0805 SMD	WÜRTH ELEKTRONIK	150080SS75000	DIGIKEY	732-4985-1-ND	1
MAIN UNIT	MAIN BOARD	LED_YEL	LED YELLOW CLEAR 0805 SMD	WÜRTH ELEKTRONIK	150080YS75000	DIGIKEY	732-4987-1-ND	1
MAIN UNIT	MAIN BOARD	LIPO_CHG	IC CONTROLLR LI-ION 4.2V SOT23-5	MICROCHIP TECHNOLOGY	MCP73831T-2ACI/OT	DIGIKEY	MCP73831T-2ACI/OTCT-ND	1
MAIN UNIT	MAIN BOARD	LITHIUM ION BATTERY	BATTERY LITHIUM 3.7V 1.2AH	ADAFRUIT INDUSTRIES LLC	258	DIGIKEY	1528-1838-ND	1
MAIN UNIT	MAIN BOARD	LITHIUM POLYMER BATTERY	BATT LITH POLY 1SIP 320MAH 3.7V	JAUCH QUARTZ	LP402535JU + PCM + WIRES 50MM	DIGIKEY	1908-1354-ND	4
MAIN UNIT	MAIN BOARD	R1, R13, R5, R6, R8	RES SMD 100K OHM 1% 1/3W 0805	TE CONNECTIVITY	CRGH0805F100K	DIGIKEY	A126415CT-ND	5
MAIN UNIT	MAIN BOARD	R11	RES SMD 2K OHM 0.1% 1/4W 0805	TE CONNECTIVITY	RP73PF2A2K0BTDF	DIGIKEY	A110572CT-ND	1
MAIN UNIT	MAIN BOARD	R19, R20, R21, R22, R3	CRGCQ 0805 4K7 1%	TE CONNECTIVITY	CRGCQ0805F4K7	DIGIKEY	A129757CT-ND	5
MAIN UNIT	MAIN BOARD	R2, R10, R15, R16, R17, R18	RES SMD 560 OHM 1% 1/8W 0805	TE CONNECTIVITY	CRG0805F560R	DIGIKEY	A126376CT-ND	6
MAIN UNIT	MAIN BOARD	R7, R9	RES SMD 22 OHM 1% 1/8W 0805	TE CONNECTIVITY	CRG0805F22R	DIGIKEY	A126352CT-ND	2
MAIN UNIT	MAIN BOARD	RESET	SWTCH TACTILE SPST-NO 0.05A 12V	E-SWITCH	TL3301FF160QG	DIGIKEY	EG4375CT-ND	1
MAIN UNIT	MAIN BOARD	SD_SLOT	CONN MICRO SD CARD PUSH-PUSH R/A	MOLEX	5027740891	DIGIKEY	WM24066CT-ND	1
MAIN UNIT	MAIN BOARD	STM32F405RGT6	IC MCU 32BIT 1MB FLASH 64LQFP	STMICROELECTRONICS	STM32F405RGT6	DIGIKEY	497-11767-ND	1
MAIN UNIT	MAIN BOARD	U1	IC REG LINEAR 3.3V 1A SOT223	DIODES INCORPORATED	AZ1117EH-3.3TRG1	DIGIKEY	AZ1117EH-3.3TRG1DICT-ND	1
MAIN UNIT	MAIN BOARD	X1	CONN HEADER SMD 10POS 1.27MM	SAMTEC INC.	SHF-105-01-L-D-SM	DIGIKEY	SAM10710-ND	1
MAIN UNIT	MAIN BOARD	XTAL	CRYSTAL 12.0000MHZ 18PF SMD	ECS INC.	ECS-120-18-5PX-TR	DIGIKEY	XC1289CT-ND	1
MAIN UNIT	MAIN BOARD	Y1	CRYSTAL 32.7680KHZ 6PF SMD	ABRACON LLC	ABS25-32.768KHZ-6-1-T	DIGIKEY	535-10241-1-ND	1
MAIN UNIT	UI BOARD	UI BOARD PCB	UI BOARD PRINTED CIRCUIT BOARD	OSHPARK		OSHPARK		1
MAIN UNIT	UI BOARD	LED HOLDER	LED HOLDER	3D PRINTED				1
MAIN UNIT	UI BOARD	7 SEGMENT DISPLAY	QUAD ALPHANUMERIC DISPLAY - RED 0.54" DIGITS W/ 12C BACKPACK	ADAFRUIT INDUSTRIES LLC	1911	ADAFRUIT	1911	1
MAIN UNIT	UI BOARD	CHG	PNL MNT W/ WIRE 590NM 25MCD YLW	BIVAR INC.	MPR5YD	DIGIKEY	492-1576-ND	1
MAIN UNIT	UI BOARD	PWR	PNL MNT W/ WIRE 568NM 25MCD GRN	BIVAR INC.	MPR5GD	DIGIKEY	492-1571-ND	1
MAIN UNIT	UI BOARD	R1, R3	RES SMD 44.2 OHM 0.1% 1/4W 0805	TE CONNECTIVITY	8-1625868-9	DIGIKEY	A110413CT-ND	2
MAIN UNIT	UI BOARD	R2	RES SMD 80.6 OHM 0.1% 1/4W 0805	TE CONNECTIVITY	1-2176091-5	DIGIKEY	A110438CT-ND	1
MAIN UNIT	UI BOARD	R4	CRGCQ 0805 4K7 1%	TE CONNECTIVITY	CRGCQ0805F4K7	DIGIKEY	A129757CT-ND	1
MAIN UNIT	UI BOARD	REC	PNL MNT W/ WIRE 625NM 25MCD RED	BIVAR INC.	MPR5HD	DIGIKEY	492-1573-ND	1
MAIN UNIT	UI BOARD	STANDOFFS	SPLINED PRESS-FIT THREADED STANDOFFS WITH OPEN END; MINIATURE, 2.4MM OD, 2MM LONG			MCMMASTER	92985A815	4
MAIN UNIT	UI BOARD	U\$4	SWITCH PUSHBUTTON SPST-NO 2A 48V	E-SWITCH	PV0H240SS	DIGIKEY	EG5385-ND	1
MAIN UNIT	UI BOARD	X1	CONN HEADER SMD 10POS 1.27MM	SAMTEC INC.	SHF-105-01-L-D-SM	DIGIKEY	SAM10710-ND	1

ASSEMBLY	SUB ASSEMBLY	PART	DESCRIPTION	MFG.	MFG. PART NO.	SUPPLIER	SUPPLIER PART NO.	QTY/UNIT
MAIN UNIT	UI BOARD		316 STAINLESS STEEL WASHER; FOR NUMBER 3 SCREW SIZE, 0.109" ID, 0.25" OD			MCMaster	90107A004	4
MAIN UNIT	UI BOARD		ALUMINUM UNTHREADED SPACER; 1/4" OD, 3/16" LONG, FOR NUMBER 2 SCREW SIZE			MCMaster	92510A401	4
MAIN UNIT	UI BOARD		18-8 STAINLESS STEEL WASHER FOR M1 SCREW SIZE, 1.1 MM ID, 3.2 MM OD			MCMaster	93475A154	8
MAIN UNIT	UI BOARD		18-8 STAINLESS STEEL NARROW CHEESE HEAD SLOTTED SCREWS; M1 X 0.25MM THREAD, 10MM LONG			MCMaster	91800A062	4
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	ADXL375 BOARD PCB	ADXL375 BOARD PRINTED CIRCUIT BOARD	OSHPARK		OSHPARK		1
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	U1	IC GATE OR 1CH 2-INP SC70-5	TEXAS INSTRUMENTS	SN74LVC1G32DCKR	DIGIKEY	296-9848-1-ND	1
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	RJ45	DIGIKEY PART NO. RJCSE538001CT-	AMPHENOL ICC (COMMERCIAL PRODUCTS)	RJCSE538001	DIGIKEY	RJCSE538001CT-ND	1
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	L1	FERRITE BEAD 30 OHM 0805 1LN	BOURNS INC.	MH2029-300Y	DIGIKEY	MH2029-300YCT-ND	1
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	C3, C1	CAP CER 0.1UF 25V X7R 0805	KEMET	C0805C104K3RACTU	DIGIKEY	399-1168-1-ND	2
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	C2	CAP CER 10UF 10V X5R 0805	KEMET	C0805C106K8PACTU	DIGIKEY	399-4925-1-ND	1
FRONT ACCELEROMETER UNIT	ADXL375 BOARD	ADXL375	ACCELEROMETER 200G I2C/SPI 14LGA	ANALOG DEVICES INC.	ADXL375BCCZ	DIGIKEY	ADXL375BCCZ-ND	1
FRONT ACCELEROMETER UNIT	-	FRONT MOUNT BLOCK	FRONT MOUNT BLOCK	3D PRINTED				1
FRONT ACCELEROMETER UNIT	-	FRONT COVER	FRONT COVER	3D PRINTED				1
FRONT ACCELEROMETER UNIT	-	LARGE U-BOLT	RUBBER-CUSHIONED U-BOLT; 3/4" STAINLESS STEEL, 3/8"-16 THREAD SIZE, 1-2.04" ID			MCMaster	30555T43	2
FRONT ACCELEROMETER UNIT	-	M3X0.5 BRASS INSERTS	BRASS HEAT-SET INSERTS FOR PLASTIC; M3 X 0.50 MM THREAD SIZE, 5.700 MM INSTALLED LENGTH			MCMaster	94459A140	4
FRONT ACCELEROMETER UNIT	-	SCREW; PHILLIPS; M3X0.5X6	STAINLESS STEEL PAN HEAD SCREWS; WITH EXTERNAL-TOOTH WASHER, M3 X 0.5 MM THREAD, 6 MM LONG			MCMaster	90317A523	4
FRONT ACCELEROMETER UNIT	-	1/4" WASHER	316 STAINLESS STEEL WASHER; FOR 1/4" SCREW SIZE, 0.281" ID, 0.625" OD			MCMaster	90107A029	4
REAR ACCELEROMETER UNIT	ADXL375 BOARD	ADXL375 BOARD PCB	ADXL375 BOARD PRINTED CIRCUIT BOARD	OSHPARK		OSHPARK		1
REAR ACCELEROMETER UNIT	ADXL375 BOARD	U1	IC GATE OR 1CH 2-INP SC70-5	TEXAS INSTRUMENTS	SN74LVC1G32DCKR	DIGIKEY	296-9848-1-ND	1
REAR ACCELEROMETER UNIT	ADXL375 BOARD	RJ45	DIGIKEY PART NO. RJCSE538001CT-	AMPHENOL ICC (COMMERCIAL PRODUCTS)	RJCSE538001	DIGIKEY	RJCSE538001CT-ND	1
REAR ACCELEROMETER UNIT	ADXL375 BOARD	L1	FERRITE BEAD 30 OHM 0805 1LN	BOURNS INC.	MH2029-300Y	DIGIKEY	MH2029-300YCT-ND	1
REAR ACCELEROMETER UNIT	ADXL375 BOARD	C3, C1	CAP CER 0.1UF 25V X7R 0805	KEMET	C0805C104K3RACTU	DIGIKEY	399-1168-1-ND	2
REAR ACCELEROMETER UNIT	ADXL375 BOARD	C2	CAP CER 10UF 10V X5R 0805	KEMET	C0805C106K8PACTU	DIGIKEY	399-4925-1-ND	1
REAR ACCELEROMETER UNIT	ADXL375 BOARD	ADXL375	ACCELEROMETER 200G I2C/SPI 14LGA	ANALOG DEVICES INC.	ADXL375BCCZ	DIGIKEY	ADXL375BCCZ-ND	1
REAR ACCELEROMETER UNIT	-	REAR MOUNT BLOCK	REAR MOUNT BLOCK	3D PRINTED				1
REAR ACCELEROMETER UNIT	-	REAR COVER	REAR COVER	3D PRINTED				1
REAR ACCELEROMETER UNIT	-	REAR TRIANGLE ADAPTER	REAR TRIANGLE ADAPTER	3D PRINTED				1
REAR ACCELEROMETER UNIT	-	SMALL U-BOLT	RUBBER-CUSHIONED U-BOLT; 3/4" STAINLESS STEEL, 1/4"-20 THREAD SIZE, 1-1.14" ID			MCMaster	30555T42	2
REAR ACCELEROMETER UNIT	-	M3X0.5 BRASS INSERTS	BRASS HEAT-SET INSERTS FOR PLASTIC; M3 X 0.50 MM THREAD SIZE, 5.700 MM INSTALLED LENGTH			MCMaster	94459A140	4
REAR ACCELEROMETER UNIT	-	SCREW; PHILLIPS; M3X0.5X6	STAINLESS STEEL PAN HEAD SCREWS; WITH EXTERNAL-TOOTH WASHER, M3 X 0.5 MM THREAD, 6 MM LONG			MCMaster	90317A523	4
REAR ACCELEROMETER UNIT	-	1/4" WASHER	316 STAINLESS STEEL WASHER; FOR 1/4" SCREW SIZE, 0.281" ID, 0.625" OD			MCMaster	90107A029	4