Comment	Description	Designator	Footprint	Value	Manufacturer	Part Number	Digikey Number	Stuff
Pancake Motor	Vibrator Motor	B1	PANCAKE_MOTOR		JinLong Machinery	Pancake Motor	All electronics	Yes
Batteries	Multicell Battery	BT1	4AAA HOLDER		Keystone Componer	nt 2481	2481K-ND	Yes
		C1, C2, C6, C7, C11,						
•		C15, C16, C17, C52,				E C 1 \ / D 1 C 1 C 1 C 1 /		\/a
Сар	Capacitor	C53, C54, C55, C56	0603	0.1uF	Kemet	ECJ-1VB1C104K	PCC1762CT-ND	Yes
Cap	Capacitor	C3,C4	0603	12pF	Kemet	ECJ-1VC1H120J	PCC120ACVCT-ND	Yes
Cap	Capacitor	C5	0603	47nF	Kemet	ECJ-1VB1C473K	PCC1758CT-ND	Yes
Cap Pol3		C9, C25, C26, C27	6032-28	10uF	Kemet	T491C106K010AS	399-1571-1-ND	Yes Yes
Cap	Capacitor	C10	1206	22uF	Kemet	ECJ-3YB0J226M	PCC2242CT-ND PCC270ACVCT-ND	Yes
Cap	Capacitor	C12 C13	0603 0603	27pF	Kemet	ECJ-1VC1H270J	PCC270ACVCT-ND PCC331ACVCT-ND	Yes
Cap	Capacitor	C14, C29	1206	330pF 2.2uF	Kemet Kemet	ECI-1VC1H331J	PCC1931CT-ND	Yes
Cap	Capacitor	C14, C29	0603	100pF	Kemet	ECJ-3YB1C225K	+	Yes
Cap	Capacitor	C20, C21	0603	0.01uF	Kemet	C0603C103K5RACTU	PCC101ACVCT_ND 399-1091-1-ND	Yes
Cap	Capacitor Polarized Capacito		6032-28	33uF		T491C336K016AS	399-1599-1-ND	Yes
Cap Pol3	<u> </u>		6032-28	15uF	Kemet	T491C336K016AS	399-1599-1-ND 399-1572-1-ND	Yes
Cap Pol3	Polarized Capacito Polarized Capacito		6032-28	47uF	Kemet Kemet	T491C156K010AS	399-1572-1-ND 399-1575-1-ND	Yes
Cap Pol3	Polarized Capacito Polarized Capacito		6032-28	22uF	Kemet	T491C476K010AS	399-1575-1-ND 399-1573-1-ND	Yes
Cap LED2	· · · · · · · · · · · · · · · · · · ·	DS1, DS2, DS3, DS4	LED-1206	BLUE	Lite-On	LTST-C150CBKT		Yes
.ED	Typical RED, GREE		LED-1206	YELLOW	Lite-On		160-1401-1-ND 160-1407-1-ND	Yes
R LED	Typical RED, GREE		PIN2	TELLOW		LTST-C150KYKT		Yes
PS62056	TI STEP DOWN CO		MSOP10		Agilent Texas Instruments	HDSL-4220 TPS62056DGS	Future Electronics	Yes
PS60110	TI CHARGE PUMP	IC2	TSOP/PWP/20		Texas Instruments	TPS62056DGS TPS60110PWP	296-14212-5-ND 296-2265-5-ND	Yes
IIC and SPEAKER	Audio Jack	12	SMT AUDIO		CUI Inc	SJ-3514-SMT-1	CP-3514SJ-ND	Yes
TAG/ISP CONN	Header, 7-Pin, Dua	<u> </u>	HDR2X7		Molex	10-88-1141	WM6914-ND	Yes
MHDR1X16	Header, 16-Pin	JP2, JP3, JP4, JP5	MHDR1X16		Molex	90325-0016	90325-0016-ND	No
Power, C2 CONNs	Header, 4-Pin	JP6, JP20	HDR1X4		Molex	22-23-2041	WM4202-ND	Yes
leader 3	Header, 3-Pin	JP7	HDR1X3		Molex	22-23-2031	WM4201-ND	No
nductor	Inductor	L1	DN4835	10uH	tyco/Coev	DN4835-100M	436-1011-2-ND	Yes
Mic2	Microphone	MK1	MIC54B	Touri	Panasonic	WM-54B	P9949-ND	Yes
leader 9X2	Header, 9-Pin, Dua		2MM18PIN-SMT		Molex	87267-1850	WM18163-ND	Yes
IFET ZVNL110A	N-Channel MOSFE		BCY-W3/H.8		Zetex	ZVNL110A	ZVNL110A-ND	Yes
C847B	NPN Bipolar Transi	*	SOT-23		Diodes Inc	BC847BT	BC847BT-ND	Yes
Res1	Resistor	R1, R11, R12	0603	100K	Yageo	9C06031A1003FKHFT	311-100KHCT-ND	Yes
1031	Resistor	INI, NII, NIZ	0003	10010	lugeo	3000001/120001 1(11) 1	311 IOOKIICI ND	100
les1	Resistor	R2, R3, R4, R5, R22, R23, R73, R74	0603	OR	Yageo	9C06031A0R00JLHFT	311-0.0GCT-ND	Yes
	Resistor	R6. R21	0603	10K			311-0.0GCT-ND	Yes
les1	Resistor	R8	0603	4.7K	Yageo Yageo	9C06031A1002FKHFT	211-10'0VUC I-IND	Yes
kes1	Resistor	R9	0603	91K	Yageo			Yes
Res1	Resistor	R10	0603	300K	Yageo			Yes
Res1	Resistor	R14	0603	56K	Yageo			Yes
Res1	Resistor	R16	0603	DNM	Yageo			No
	1.0313101		0000	DIAIL	lugeo			INU
es1	Resistor	R17, R25, R26, R28, R29, R32, R33	0603	47K	Yageo			Yes
es1	Resistor	R18	0603	475K	Yageo			Yes
les1	Resistor	R19	0603	470	Yageo			Yes
Res1	Resistor	R20	0603	3K	Yageo			Yes
Res1	Resistor	R23	0603	DNM	Yageo			No
Res1	Resistor	R24, R27	0603	27K	Yageo			Yes
Res1	Resistor	R30	0603	51K	Yageo			Yes

Res1	Resistor	R31	0603	33K	Yageo			Yes
Res1	Resistor	R36	0603	51	Yageo	9C06031A51R0FKHFT	311-51.0HCT-ND	Yes
Res2	Resistor	R40, R75, R76, R92	0603	1K	Yageo	9C06031A1001FKHFT	311-1.00KHCT-ND	Yes
Res2	Resistor	R41, R91	0603	3.8	Yageo	9C06031A3R90JLHFT	311-3.9GCT-ND	Yes
RPot1	Potentiometer	R38, R93	TPOT-P5E	10K	Panasonic	EVN-5ESX50B14	P5E103CT-ND	Yes
3 WAY NAV	Navigation Switch	SW1	3WAY NAV		ITT Industries	TPC1133G	401-1264-1-ND	Yes
MSP430F149	Microcontroller	U1	QFP64		Texas Instruments	MSP430F149	296-9615-ND	Yes
ATMEL DATAFLASH	Memory	U2	TSSOP48/DF	256MB	Atmel	AT45DB2562-TC	Arrow Electronics	No
ATMEL DATAFLASH	Memory	U2A	TSSOP28/DF	16MB	Atmel	AT45DB161B-TI	Arrow Electronics	Yes
LMV324	Quad Low Voltage	U3	TSSOP14		National Semiconduc	LMV324MT	LMV324MT-ND	Yes
MAX6951	LED Driver	U7	QSOP16		Maxim Semiconducto	MAX6951CEE	Maxim Direct	Yes
MAX3232CUE	3.0V TO 5.5V, Low-	U22	QSOP16		Sipex Inc	MAX3232EEUE	Future Electronics	Yes
C8051F301	Microcontroller	U32	MLP-11		Cygnal	C8051F301	336-1044-1-ND	Yes
PNA4613	IR Receiver	U42	PNA-XD		Panasonic	PNA4612M00XD	PNA4612M00XD-ND	Yes
LCD HD44780 4X20	LCD Module 4x20	X1	HDR1X16		Optrex	DMC-20481NYU-LY-ACE-BG	73-1097-ND	No
LCD VARI 16x2	LCD Module 2x16	Х3	HDR1x16		Varitronix	MDL(S)-16263	MDLS16263-CGLED1G-ND	No
8MHz	Crystal Oscillator	Y1	HCM49	8MHz	Citizen	HCM49-8.000MABJT	300-6117-1-ND	Yes