

Part	Value	Device	Package
X2	SM04B-SRSS-TB	4 Pin parallel connector	SM04B-SRSS-TB
X1	SM08B-SRSS-TB	8 Pin parallel connector	SM08B-SRSS-TB
X3	SM06B-SRSS-TB	6 pin parallel connector	SM06B-SRSS-TB
VM_SWITC	H1 DPDT	SWITCH-DPDTAYZ0202	AYZ0202
JP1		JP1E	JP1
U\$1	MSP430	MSP430	MSP430
U\$3	MINISMDC110F-2	MINISMDC110F-2	MINISMDC110
DAC1	MCP4921_SMD	MCP4921_SMD	MCP4921_SMD
DAC2	MCP4921_SMD	MCP4921_SMD	MCP4921_SMD
C1	10uF	C-USC0805	C0805
C2	0.1uF	C-USC0805	C0805
C3	22pF	C-USC0805	C0805
C4	22pF	C-USC0805	C0805
C5	0.1uF	C-USC0805	C0805
C6	0.1uF	C-USC0805	C0805
C7	10uF	C-USC1210	C1210
C8	10uF	C-USC1210	C1210
R1	10k	R-US_R0603	R0603
R2	10k	R-US_R0603	R0603
R3	10k	R-US_R0603	R0603
R4	330	R-US_R0603	R0603
R5	330	R-US_R0603	R0603
R6	330	R-US_R0603	R0603
RESET1	SWITCH-MOMENTARY-2SMD	SWITCH-MOMENTARY-2SMD	TACTILE_SWITCH_SMD
16MHZ		CRYSTAL5X3	CRYSTAL-SMD-5X3
LED1	LED-TRICOLOR	LED-TRICOLOR	LED-TRICOLOR-SMD
3V3OUT		1,6/0,8	1,6/0,8
DP1		1,6/0,8	1,6/0,8
DP2		1,6/0,8	1,6/0,8
P6		1,6/0,8	1,6/0,8
P14		1,6/0,8	1,6/0,8
P15		1,6/0,8	1,6/0,8
P16		1,6/0,8	1,6/0,8
P17		1,6/0,8	1,6/0,8

P18		1,6/0,8	1,6/0,8
P19		SMD2	SMD1,27-2,54
P26		SMD2	SMD1,27-2,54
P29		1,6/0,8	1,6/0,8
P30		1,6/0,8	1,6/0,8
P32		1,6/0,8	1,6/0,8
P34		SMD2	SMD1,27-2,54
P35		SMD2	SMD1,27-2,54
P36		1,6/0,8	1,6/0,8
P37		1,6/0,8	1,6/0,8
P38		1,6/0,8	1,6/0,8
P39		1,6/0,8	1,6/0,8
P40		1,6/0,8	1,6/0,8
P41		1,6/0,8	1,6/0,8
P42		1,6/0,8	1,6/0,8
P43		1,6/0,8	1,6/0,8
P44		SMD2	SMD1,27-2,54
P45		1,6/0,8	1,6/0,8
P46		1,6/0,8	1,6/0,8
P47		1,6/0,8	1,6/0,8
P48		1,6/0,8	1,6/0,8
P49		1,6/0,8	1,6/0,8
P50		1,6/0,8	1,6/0,8
P51		1,6/0,8	1,6/0,8
P52		1,6/0,8	1,6/0,8
P53		1,6/0,8	1,6/0,8
P54		1,6/0,8	1,6/0,8
P55		1,6/0,8	1,6/0,8
P56		SMD2	SMD1,27-2,54
P59		1,6/0,8	1,6/0,8
P60		1,6/0,8	1,6/0,8
P61		1,6/0,8	1,6/0,8
PGND		1,6/0,8	1,6/0,8
VIN		1,6/0,8	1,6/0,8

Library	Cost
con-jst2	\$0.79
con-jst2	\$0.79
con-jst2	\$0.79
SparkFun-Electromechanical	\$1.22
jumper	\$0.10
LearningByMaking	\$10.35
LearningByMaking	\$0.46
PocketCube	\$2.08
PocketCube	\$2.08
rcl	\$0.21
rcl	\$0.10
rcl	\$0.06
rcl	\$0.06
rcl	\$0.10
rcl	\$0.10
rcl	\$0.73
rcl	\$0.73
rcl	\$0.12
rcl	\$0.12
rcl	\$0.12
rcl	\$0.17
rcl	\$0.17
rcl	\$0.17
SparkFun-Electromechanical	\$0.95
SparkFun-FreqCtrl	\$1.50
SparkFun-LED	\$2.25
wirepad	
wirepad	
wirepad	
wirepad	
wirepad	
wirepad	
wirepad	
wirepad	

[illegible]

Link
<a href="http://www.digikey.com/product-detail/en/SM04B-SRSS-TB(LF)(SN)/455-1804-1-ND/926875">http://www.digikey.com/product-detail/en/SM04B-SRSS-TB(LF)(SN)/455-1804-1-ND/926875</a>
<a href="http://www.digikey.com/product-detail/en/SM08B-SRSS-TB(LF)(SN)/455-1808-2-ND/926714">http://www.digikey.com/product-detail/en/SM08B-SRSS-TB(LF)(SN)/455-1808-2-ND/926714</a>
<a href="http://www.digikey.com/product-detail/en/SM06B-SRSS-TB(LF)(SN)/455-1806-1-ND/926877">http://www.digikey.com/product-detail/en/SM06B-SRSS-TB(LF)(SN)/455-1806-1-ND/926877</a>
<a href="http://www.mouser.com/ProductDetail/CK-Components/AYZ0202AGRLC/?qs=sGAEpiMZZMtHXLepeqNyVZhtXn">http://www.mouser.com/ProductDetail/CK-Components/AYZ0202AGRLC/?qs=sGAEpiMZZMtHXLepeqNyVZhtXn</a>
<a href="http://www.mouser.com/ProductDetail/3M-Electronic-Solutions-Division/969102-0000-DA/?qs=sGAEpiMZZMs">http://www.mouser.com/ProductDetail/3M-Electronic-Solutions-Division/969102-0000-DA/?qs=sGAEpiMZZMs</a>
<a href="http://www.mouser.com/ProductDetail/Texas-Instruments/MSP430F2410TPMR/?qs=sGAEpiMZZMsp%252bcah">http://www.mouser.com/ProductDetail/Texas-Instruments/MSP430F2410TPMR/?qs=sGAEpiMZZMsp%252bcah</a>
<a href="http://www.mouser.com/ProductDetail/TE-Connectivity-Raychem/MINISMDC110F-24-2/?qs=sGAEpiMZZMsxR9">http://www.mouser.com/ProductDetail/TE-Connectivity-Raychem/MINISMDC110F-24-2/?qs=sGAEpiMZZMsxR9</a>
<a href="http://www.mouser.com/ProductDetail/Microchip-Technology/MCP4921-E-MS/?qs=sGAEpiMZZMswix2y39yldZ">http://www.mouser.com/ProductDetail/Microchip-Technology/MCP4921-E-MS/?qs=sGAEpiMZZMswix2y39yldZ</a>
<a href="http://www.mouser.com/ProductDetail/Microchip-Technology/MCP4921-E-MS/?qs=sGAEpiMZZMswix2y39yldZ">http://www.mouser.com/ProductDetail/Microchip-Technology/MCP4921-E-MS/?qs=sGAEpiMZZMswix2y39yldZ</a>
<a href="http://www.mouser.com/ProductDetail/Kemet/C0805C106K8PACTU/?qs=sGAEpiMZZMs0AnBnWHyRQI9zuYliQ">http://www.mouser.com/ProductDetail/Kemet/C0805C106K8PACTU/?qs=sGAEpiMZZMs0AnBnWHyRQI9zuYliQ</a>
<a href="http://www.mouser.com/ProductDetail/Kemet/C0805C104K5RACTU/?qs=sGAEpiMZZMs0AnBnWHyRQFCCI5cSt">http://www.mouser.com/ProductDetail/Kemet/C0805C104K5RACTU/?qs=sGAEpiMZZMs0AnBnWHyRQFCCI5cSt</a>
<a href="http://www.mouser.com/ProductDetail/Vishay-Vitramon/VJ0805A220GXACW1BC/?qs=eSjamwHkOJ3pP2pmSgI">http://www.mouser.com/ProductDetail/Vishay-Vitramon/VJ0805A220GXACW1BC/?qs=eSjamwHkOJ3pP2pmSgI</a>
<a href="http://www.mouser.com/ProductDetail/Vishay-Vitramon/VJ0805A220GXACW1BC/?qs=eSjamwHkOJ3pP2pmSgI">http://www.mouser.com/ProductDetail/Vishay-Vitramon/VJ0805A220GXACW1BC/?qs=eSjamwHkOJ3pP2pmSgI</a>
<a href="http://www.mouser.com/ProductDetail/Kemet/C0805C104K5RACTU/?qs=sGAEpiMZZMs0AnBnWHyRQFCCI5cSt">http://www.mouser.com/ProductDetail/Kemet/C0805C104K5RACTU/?qs=sGAEpiMZZMs0AnBnWHyRQFCCI5cSt</a>
<a href="http://www.mouser.com/ProductDetail/Kemet/C0805C104K5RACTU/?qs=sGAEpiMZZMs0AnBnWHyRQFCCI5cSt">http://www.mouser.com/ProductDetail/Kemet/C0805C104K5RACTU/?qs=sGAEpiMZZMs0AnBnWHyRQFCCI5cSt</a>
<a href="http://www.mouser.com/ProductDetail/AVX/TAJB106K016RNJ/?qs=sGAEpiMZZMukHu%252bjC5I7YfjHecWodFr">http://www.mouser.com/ProductDetail/AVX/TAJB106K016RNJ/?qs=sGAEpiMZZMukHu%252bjC5I7YfjHecWodFr</a>
<a href="http://www.mouser.com/ProductDetail/AVX/TAJB106K016RNJ/?qs=sGAEpiMZZMukHu%252bjC5I7YfjHecWodFr">http://www.mouser.com/ProductDetail/AVX/TAJB106K016RNJ/?qs=sGAEpiMZZMukHu%252bjC5I7YfjHecWodFr</a>
<a href="http://www.mouser.com/ProductDetail/Welwyn-Components-TT-Electronics/WCR0603-10KFA/?qs=sGAEpiMZZ">http://www.mouser.com/ProductDetail/Welwyn-Components-TT-Electronics/WCR0603-10KFA/?qs=sGAEpiMZZ</a>
<a href="http://www.mouser.com/ProductDetail/Welwyn-Components-TT-Electronics/WCR0603-10KFA/?qs=sGAEpiMZZ">http://www.mouser.com/ProductDetail/Welwyn-Components-TT-Electronics/WCR0603-10KFA/?qs=sGAEpiMZZ</a>
<a href="http://www.mouser.com/ProductDetail/Welwyn-Components-TT-Electronics/WCR0603-10KFA/?qs=sGAEpiMZZ">http://www.mouser.com/ProductDetail/Welwyn-Components-TT-Electronics/WCR0603-10KFA/?qs=sGAEpiMZZ</a>
<a href="http://www.mouser.com/ProductDetail/Vishay-Dale/CRCW0603330RFKEAHP/?qs=sGAEpiMZZMu61qfTUdNhGv">http://www.mouser.com/ProductDetail/Vishay-Dale/CRCW0603330RFKEAHP/?qs=sGAEpiMZZMu61qfTUdNhGv</a>
<a href="http://www.mouser.com/ProductDetail/Vishay-Dale/CRCW0603330RFKEAHP/?qs=sGAEpiMZZMu61qfTUdNhGv">http://www.mouser.com/ProductDetail/Vishay-Dale/CRCW0603330RFKEAHP/?qs=sGAEpiMZZMu61qfTUdNhGv</a>
<a href="http://www.mouser.com/ProductDetail/Vishay-Dale/CRCW0603330RFKEAHP/?qs=sGAEpiMZZMu61qfTUdNhGv">http://www.mouser.com/ProductDetail/Vishay-Dale/CRCW0603330RFKEAHP/?qs=sGAEpiMZZMu61qfTUdNhGv</a>
<a href="https://www.sparkfun.com/products/8720">https://www.sparkfun.com/products/8720</a>
<a href="https://www.sparkfun.com/products/94">https://www.sparkfun.com/products/94</a>
<a href="https://www.sparkfun.com/products/7844">https://www.sparkfun.com/products/7844</a>



[nccpicDAAwPQzO4ADE%3d](#)  
[%252bGHln7q6pm53vbKor1bMJSX508U9KcSY%3d](#)  
[lb6g%252bW7cnxfudTitMP3KQsb%252b34Q8%3d](#)  
[6252bBXi4wRUDhBEZDjtMxpGUdL9QX0dM%3d](#)  
[!i8VMiqnm0Z15HltNv8YaM%3d](#)  
[!i8VMiqnm0Z15HltNv8YaM%3d](#)  
[ALCXT7Nlyqb6iU%3d](#)  
[ɔRT%2fPJnH450Mpoc%3d](#)  
[Cw%252bA==](#)  
[Cw%252bA==](#)  
[ɔRT%2fPJnH450Mpoc%3d](#)  
[ɔRT%2fPJnH450Mpoc%3d](#)  
rw1kgucZml6yY%3d  
rw1kgucZml6yY%3d  
[!Mu61qfTUdNhGytRJtqZVNNZoABROaZjQ1k7yTW9tUw%252bA%3d%3d](#)  
[!Mu61qfTUdNhGytRJtqZVNNZoABROaZjQ1k7yTW9tUw%252bA%3d%3d](#)  
[!Mu61qfTUdNhGytRJtqZVNNZoABROaZjQ1k7yTW9tUw%252bA%3d%3d](#)  
vGvesw0sPGmolldJvA8E1c%3d  
vGvesw0sPGmolldJvA8E1c%3d  
vGvesw0sPGmolldJvA8E1c%3d