

# USB I2C Interface (BETA) 00\_Bill of Materials (BOM)

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## Bill of Materials (BOM) Introduction





### General

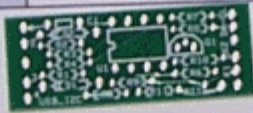
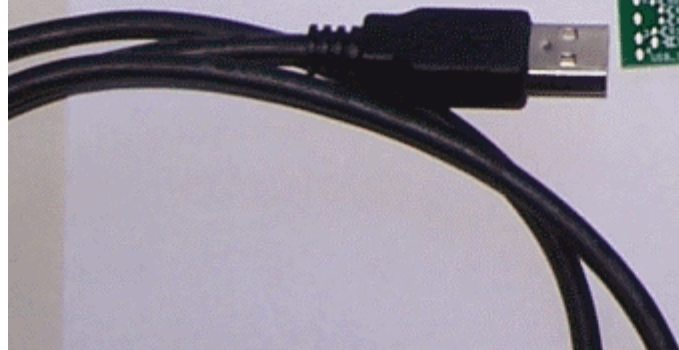
**These documents are currently in BETA and are subject to additional modifications/changes**

### Kit as Received




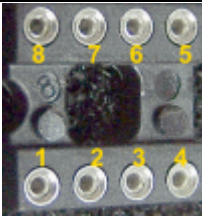
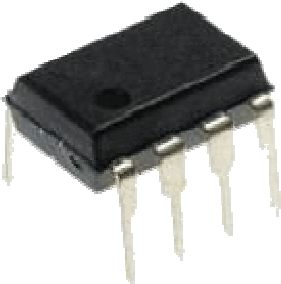




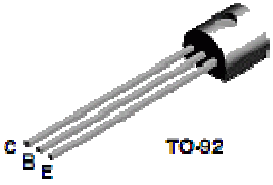
**Kit as Inventoried**

Component	Value	Markings	QTY
Capacitor-Ceramic	4.7 uF 10%	 475	1
Capacitor-SMT 1206	0.01 uF		3
connector-cable	USB 4 conductor 3' male		1
connector-socket	 socket, machine, 8 pin		1
Diode-Axial	1N5227B	1N5227B	2
IC-DIP 8	ATTINY45	ATTINY45	1
misc-misc	3" Heat shrink tubing		1
Resistor-1/4W	4.7 k 1/4 W 5%	y-v-r-gl y-v-r-gl	3
Resistor-1/6W	68 1/6W 5%	bl-gry-blk-gid b	5
Resistor-1/6W	2.2 k 1/6W 5%	r-r-r-gld r-r-r-gld	2
Resistor-1/6W	1 M 1/6W 5%	brn-blk-grn-gld	1
socket-socket	 8 pin dip socket		1
Transistor-TO-92	2N3906 PNP tr	2N3906	1
wire-misc	misc hookup wire		2
wire-misc	misc hookup wire		1






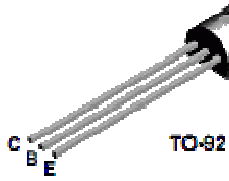





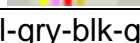

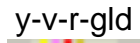
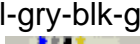


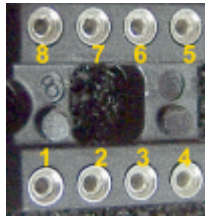
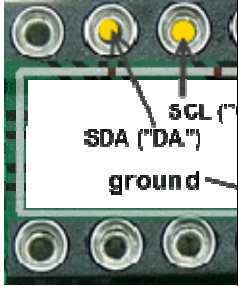
**Bill of Materials (BOM)**

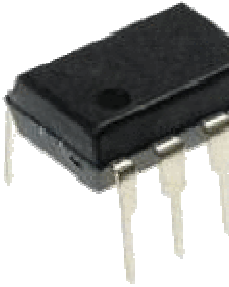
## Component Inventory Summary

Component	Value	Markings	Quantity
Capacitor-Ceramic	4.7 uF 10%	475	1
Capacitor-SMT 1206	0.1 uF	black stripe 	3
connector-cable	USB 4 conductor 3' male		1
connector-socket	socket, machine, 8 pin		1
Diode-Axial	BZX55C3V6 zener	BZX55C	2
IC-DIP 8	ATTINY 45-20 PU	AVR ATTINY45-20PU 	1
misc-misc	3" Heat shrink tubing		1
Resistor-1/4W	4.7 k 1/4 W 5%	y-v-r-gld 	3
Resistor-1/6W	68 1/6W 5%	bl-gry-blk-gld 	5
Resistor-1/6W	2.2 k 1/6W 5%	r-r-r-gld 	2
Resistor-1/6W	1 M 1/6W 5%	brn-blk-grn-gld 	1
socket-socket	8 pin dip socket		1
Transistor-TO-92	2N3906 PNP transistor	2N3906 	1
wire-misc	misc hookup wire		2
wire-misc	misc hookup wire		1

## Detailed Bill of Materials

Check	Designation	Component	Marking	Category	Orientation	Notes	Circuit
<input type="checkbox"/>	C01	4.7 uF 10%	475	Ceramic			Build Stage
<input type="checkbox"/>	C02	0.1 uF	black stripe 	SMT 1206			Build Stage
<input type="checkbox"/>	C03	0.1 uF	black stripe 	SMT 1206			Build Stage
<input type="checkbox"/>	C04	0.1 uF	black stripe 	SMT 1206			Build Stage
<input type="checkbox"/>	cbl	USB 4 conductor 3' male		cable			External Connections
<input type="checkbox"/>	control cable wire	misc hookup wire		misc		3 short lengths of hookup wire (not provided with kit)	External Connections
<input type="checkbox"/>	D1	<a href="#">BZX55C3</a> <a href="#">V6 zener</a>	BZX55C	Axial	flat-horiz		Build Stage
<input type="checkbox"/>	D2	<a href="#">BZX55C3</a> <a href="#">V6 zener</a>	BZX55C	Axial	flat-horiz		Build Stage
<input type="checkbox"/>	keyer wires (3)	misc hookup wire		misc		3 short lengths of hookup wire (not provided with kit)	External Connections
<input type="checkbox"/>	misc wire- PTT	misc hookup wire		misc		1 short length of hookup wire (not provided with kit)	External Connections
<input type="checkbox"/>	Q1	<a href="#">2N3906</a> <a href="#">PNP</a> <a href="#">transistor</a>	2N3906	TO-92			Build Stage

							
<input type="checkbox"/>	R01	68 1/6W 5%	bl-gry-blk-gld 	1/6W	flat-horiz		Build Stage
<input type="checkbox"/>	R02	68 1/6W 5%	bl-gry-blk-gld 	1/6W	flat-horiz		Build Stage
<input type="checkbox"/>	R03	2.2 k 1/6W 5%	r-r-r-gld 	1/6W	flat-horiz		Build Stage
<input type="checkbox"/>	R04	1 M 1/6W 5%	brn-blk-grn-gld 	1/6W	flat-horiz		Build Stage
<input type="checkbox"/>	R05	4.7 k 1/4 W 5%	y-v-r-gld 	1/4W	flat-horiz		Build Stage
<input type="checkbox"/>	R06	4.7 k 1/4 W 5%	y-v-r-gld 	1/4W	flat-horiz		Build Stage
<input type="checkbox"/>	R07	68 1/6W 5%	bl-gry-blk-gld 	1/6W	flat-horiz		Build Stage
<input type="checkbox"/>	R08	68 1/6W 5%	bl-gry-blk-gld 	1/6W	flat-horiz		Build Stage
<input type="checkbox"/>	R09	4.7 k 1/4 W 5%	y-v-r-gld 	1/4W	flat-horiz		Build Stage
<input type="checkbox"/>	R10	68 1/6W 5%	bl-gry-blk-gld 	1/6W	flat-horiz		Build Stage
<input type="checkbox"/>	R11	2.2 k 1/6W 5%	r-r-r-gld 	1/6W	flat-horiz		Build Stage
<input type="checkbox"/>	SO1	8 pin dip socket		socket			Build Stage
<input type="checkbox"/>	SO2	socket, machine, 8 pin		socket			External Connections
<input type="checkbox"/>	tubing	3" Heat shrink tubing		misc		Once the kit is completed and fully tested, you can	External Connections

						install the heatshrink tubing to protect the board.	
<input type="checkbox"/>	U1	<a href="#">ATTINY45-20 PU</a>	<p>AVR ATTINY45-20PU</p> 	DIP 8		Do not plug into socket SO1 until first voltage test is completed.	External Connections