

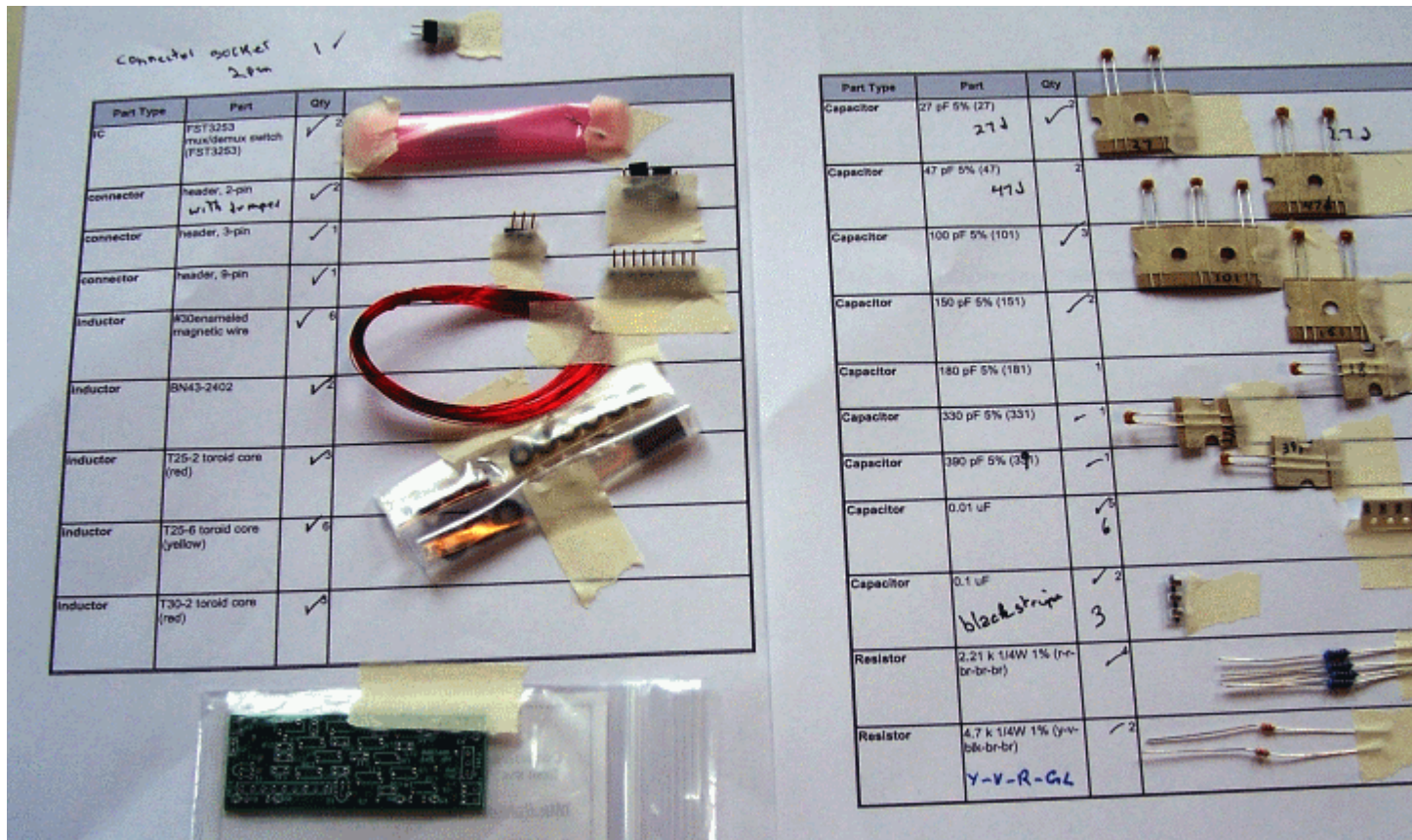
HF BPF 00_Bill of Materials

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Bill of Materials Introduction

General



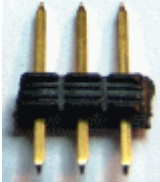
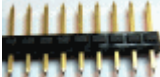
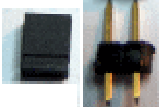
Inventory your kit before doing anything else. You may want to print out and use the [inventory sheet provided in this web site](#) to aid you in identifying and arranging the various components.

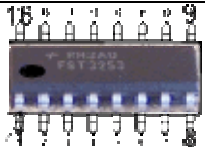








Bill of Materials

Component Inventory Summary




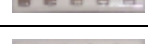


Component	Value	Markings	Quantity
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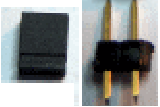
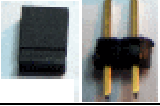
Capacitor-Ceramic	5.6 pF 5%	5.6	2
Capacitor-Ceramic	27 pF 5%	27J	2
Capacitor-Ceramic	39pF 5%	39J	1
Capacitor-Ceramic	47 pF 5%	47J	2
Capacitor-Ceramic	100 pF 5%	101	3
Capacitor-Ceramic	120 pF 5%	121	2
Capacitor-Ceramic	150 pF 5%	151	2
Capacitor-Ceramic	180 pF 5%	181	1
Capacitor-Ceramic	270 pF 5%	271	1
Capacitor-Ceramic	330 pF 5%	331	1
Capacitor-Ceramic	390 pF 5%	391	1
Capacitor-SMT 1206	0.01 uF		5
Capacitor-SMT 1206	0.1 uF	black stripe 	2
Capacitor- unused	not used		1
connector-header	header, 3-pin		1
connector-header	header, 9-pin		1
connector-jumper	header, 2-pin w/jumper		2
connector-socket	header,female, 2 pin		1
IC-SOIC-16	FST3253 mux/demux switch	FST3253	2







			
inductor-binocular core	BN43-2402		2
inductor-coil	0.53 uH 14T #30 on T25-6 (10")	yellow	1
inductor-coil	1.1 uH 20T #30 on T25-6 (11")	yellow	1
inductor-coil	1.64 uH 23T #30 on T25-6 (15")	yellow	2
inductor-coil	2 uH 27T #30 on T25-6 (16")	yellow	2
inductor-coil	2.1 uH 24T #30 on T25-2 (14")	red	1
inductor-coil	3.5 uH 32T #30 on T25-2 (15")	red	1
inductor-coil	4 uH 38T #30 on T25-6 (18")	yellow	2
inductor-coil	8 uH 49T #30 on T25-2 (22")	red	4
inductor-coil	10.7 uH 50T #30 on T30-2 (28")	red	1
inductor-coil	23 uH 71T #30 on T30-2 (39")	red	2
inductor-misc	#30enameled magnetic wire		6
inductor-toroid	T25-2 toroid core	red 	3
inductor-toroid	T25-6 toroid core	yellow 	6
inductor-toroid	T30-2 toroid core	red 	3
inductor-transformer	4T #30 trifilar BN43-2402 (7")		1

inductor-transformer	8T/2T bifilar BN43-2402 (10")		1
Resistor-1/4W	2.21 k 1/4W 1%	r-r-br-br-br 	4
Resistor-1/4W	4.7 k 1/4 W 5%	y-v-r-gl 	2


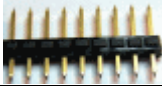
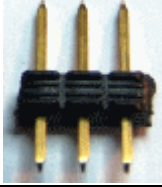
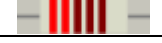

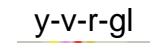
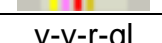


Detailed Bill of Materials





Check	Designation	Component	Marking	Category	Orientation	Notes	Circuit
<input type="checkbox"/>	C01	0.1 uF	black stripe 	SMT 1206			Busses and Rails
<input type="checkbox"/>	C02	0.01 uF		SMT 1206			Busses and Rails
<input type="checkbox"/>	C03	0.01 uF		SMT 1206			Busses and Rails
<input type="checkbox"/>	C04	0.01 uF		SMT 1206			Busses and Rails
<input type="checkbox"/>	C05	0.1 uF	black stripe 	SMT 1206			Busses and Rails
<input type="checkbox"/>	C06	0.01 uF		SMT 1206			Busses and Rails
<input type="checkbox"/>	C07	5.6 pF 5%	5.6	Ceramic			Band1a 6m
<input type="checkbox"/>	C07	150 pF 5%	151	Ceramic			Band 1: 1.8-4 MHz
<input type="checkbox"/>	C08	330 pF 5%	331	Ceramic			Band 1: 1.8-4 MHz
<input type="checkbox"/>	C08	39pF 5%	39J	Ceramic			Band1a 6m
<input type="checkbox"/>	C09	150 pF 5%	151	Ceramic			Band 1: 1.8-4 MHz
<input type="checkbox"/>	C09	5.6 pF 5%	5.6	Ceramic			Band1a 6m
<input type="checkbox"/>	C10	120 pF 5%	121	Ceramic			Band2a 3.5-8 MHz
<input type="checkbox"/>	C10	100 pF 5%	101	Ceramic			Band 2: 4-8 MHz
<input type="checkbox"/>	C11	390 pF 5%	391	Ceramic			Band 2: 4-8 MHz
<input type="checkbox"/>	C11	270 pF 5%	271	Ceramic			Band2a 3.5-8 MHz

<input type="checkbox"/>	C12	120 pF 5%	121	Ceramic			Band2a 3.5-8 MHz
<input type="checkbox"/>	C12	100 pF 5%	101	Ceramic			Band 2: 4- 8 MHz
<input type="checkbox"/>	C13	47 pF 5%	47J	Ceramic			Band 3: 8- 16 MHz
<input type="checkbox"/>	C14	180 pF 5%	181	Ceramic			Band 3: 8- 16 MHz
<input type="checkbox"/>	C15	47 pF 5%	47J	Ceramic			Band 3: 8- 16 MHz
<input type="checkbox"/>	C16	27 pF 5%	27J	Ceramic			Band 4: 16-30 MHz
<input type="checkbox"/>	C17	100 pF 5%	101	Ceramic			Band 4: 16-30 MHz
<input type="checkbox"/>	C18	27 pF 5%	27J	Ceramic			Band 4: 16-30 MHz
<input type="checkbox"/>	C19	0.01 uF		SMT 1206			Busses and Rails
<input type="checkbox"/>	JP1	header, 2- pin w/jumper		jumper			Busses and Rails
<input type="checkbox"/>	JP2	header, 2- pin w/jumper		jumper			Busses and Rails
<input type="checkbox"/>	L04	8 uH 49T #30 on T25- 2 (22")	red	coil			Band2a 3.5-8 MHz
<input type="checkbox"/>	L05	3.5 uH 32T #30 on T25- 2 (15")	red	coil			Band2a 3.5-8 MHz
<input type="checkbox"/>	L06	8 uH 49T #30 on T25- 2 (22")	red	coil			Band2a 3.5-8 MHz
<input type="checkbox"/>	L1	23 uH 71T #30 on T30- 2 (39")	red	coil			Band 1: 1.8-4 MHz
<input type="checkbox"/>	L1	1.64 uH 23T #30 on T25- 6 (15")	yellow	coil			Band1a 6m
<input type="checkbox"/>	L10	2 uH 27T #30 on T25- 6 (16")	yellow	coil			Band 4: 16-30 MHz
<input type="checkbox"/>	L10-core	T25-6 toroid core	yellow	toroid			Band 4: 16-30 MHz

							
<input type="checkbox"/>	L11	0.53 uH 14T #30 on T25- 6 (10")	yellow	coil			Band 4: 16-30 MHz
<input type="checkbox"/>	L11-core	T25-6 toroid core	yellow 	toroid			Band 4: 16-30 MHz
<input type="checkbox"/>	L12	2 uH 27T #30 on T25- 6 (16")	yellow	coil			Band 4: 16-30 MHz
<input type="checkbox"/>	L12-core	T25-6 toroid core	yellow 	toroid			Band 4: 16-30 MHz
<input type="checkbox"/>	L1-core	T30-2 toroid core	red 	toroid			Band 1: 1.8-4 MHz
<input type="checkbox"/>	L2	10.7 uH 50T #30 on T30- 2 (28")	red	coil			Band 1: 1.8-4 MHz
<input type="checkbox"/>	L2	not used		unused			Band1a 6m
<input type="checkbox"/>	L2-core	T30-2 toroid core	red 	toroid			Band 1: 1.8-4 MHz
<input type="checkbox"/>	L3	23 uH 71T #30 on T30- 2 (39")	red	coil			Band 1: 1.8-4 MHz
<input type="checkbox"/>	L3	1.64 uH 23T #30 on T25- 6 (15")	yellow	coil			Band1a 6m
<input type="checkbox"/>	L3-core	T30-2 toroid core	red 	toroid			Band 1: 1.8-4 MHz

<input type="checkbox"/>	L4	8 uH 49T #30 on T25- 2 (22")	red	coil			Band 2: 4- 8 MHz
<input type="checkbox"/>	L4-core	T25-2 toroid core	red 	toroid			Band 2: 4- 8 MHz
<input type="checkbox"/>	L5	2.1 uH 24T #30 on T25- 2 (14")	red	coil			Band 2: 4- 8 MHz
<input type="checkbox"/>	L5-core	T25-2 toroid core	red 	toroid			Band 2: 4- 8 MHz
<input type="checkbox"/>	L6	8 uH 49T #30 on T25- 2 (22")	red	coil			Band 2: 4- 8 MHz
<input type="checkbox"/>	L6-core	T25-2 toroid core	red 	toroid			Band 2: 4- 8 MHz
<input type="checkbox"/>	L7	4 uH 38T #30 on T25- 6 (18")	yellow	coil			Band 3: 8- 16 MHz
<input type="checkbox"/>	L7-core	T25-6 toroid core	yellow 	toroid			Band 3: 8- 16 MHz
<input type="checkbox"/>	L8	1.1 uH 20T #30 on T25- 6 (11")	yellow	coil			Band 3: 8- 16 MHz
<input type="checkbox"/>	L8-core	T25-6 toroid core	yellow 	toroid			Band 3: 8- 16 MHz
<input type="checkbox"/>	L9	4 uH 38T #30 on T25- 6 (18")	yellow	coil			Band 3: 8- 16 MHz
<input type="checkbox"/>	L9-core	T25-6 toroid core	yellow	toroid			Band 3: 8- 16 MHz

							
<input type="checkbox"/>	P100	header, 9-pin		header			Busses and Rails
<input type="checkbox"/>	P101	header, 3-pin		header		Pins: 1=gnd; 2=+5 Vdc; 3=+12Vdc. From V9.0 J2	Busses and Rails
<input type="checkbox"/>	P102	header, female, 2 pin		socket		2 pin socket provided for later connect to V9.0 RX's J3 (for eventual programmatic band switching, once the microcontroller is reprogrammed)	Bill of Materials
<input type="checkbox"/>	R01	2.21 k 1/4W 1%	r-r-br-br-br 	1/4W	E-W		Busses and Rails
<input type="checkbox"/>	R02	2.21 k 1/4W 1%	r-r-br-br-br 	1/4W	W-E		Busses and Rails
<input type="checkbox"/>	R03	4.7 k 1/4 W 5%	y-v-r-gl 	1/4W	W-E		Busses and Rails
<input type="checkbox"/>	R04	4.7 k 1/4 W 5%	y-v-r-gl 	1/4W	W-E		Busses and Rails
<input type="checkbox"/>	R05	2.21 k 1/4W 1%	r-r-br-br-br 	1/4W	W-E		Busses and Rails
<input type="checkbox"/>	R06	2.21 k 1/4W 1%	r-r-br-br-br 	1/4W	E-W		Busses and Rails
<input type="checkbox"/>	T1	4T #30 trifilar BN43-2402 (7")		transformer			Transformers
<input type="checkbox"/>	T1 wire	#30enameled magnetic wire		misc		3 lengths of #30, each 7" (18cm) long, should do OK	Transformers

<input type="checkbox"/>	T1-core	BN43-2402		binocular core			Transformers
<input type="checkbox"/>	T2	8T/2T bifilar BN43-2402 (10")		transformer			Transformers
<input type="checkbox"/>	T2 wire	#30enameled magnetic wire		misc		primary: one 10" (25 cm) length; secondaries: two 5" (12.5 cm) length should do OK	Transformers
<input type="checkbox"/>	T2-core	BN43-2402		binocular core			Transformers
<input type="checkbox"/>	U1	FST3253 mux/demux switch		SOIC-16			Switches
<input type="checkbox"/>	U2	FST3253 mux/demux switch		SOIC-16			Switches
<input type="checkbox"/>	wire 1	#30enameled magnetic wire		misc			Band 1: 1.8-4 MHz
<input type="checkbox"/>	wire 2	#30enameled magnetic wire		misc			Band 2: 4-8 MHz
<input type="checkbox"/>	wire 3	#30enameled magnetic wire		misc			Band 3: 8-16 MHz
<input type="checkbox"/>	wire 4	#30enameled magnetic wire		misc			Band 4: 16-30 MHz