

Softrock RXTX V6.3 - Xtall - 30/20/17m Boards

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Introduction

Below is the bill of materials for the BPF and PA/Filter boards for the 30/20/17m band.

Bill of Materials

Check	Designation	Component	(Color) Code	Type	Qty	Notes	Circuit
<input type="checkbox"/>	BPF-Board-3	Board 30/20/17		BPF Board	1	BPF- 30/20/17	BPF-3
<input type="checkbox"/>	C100-3	180 pF	181	ceramic	1	BPF- 30/20/17	BPF-3
<input type="checkbox"/>	C101-3	220 pF	221	ceramic	1	BPF- 30/20/17	BPF-3
<input type="checkbox"/>	P100-3	2-pin header		connector (male)	1	BPF-3	BPF-3
<input type="checkbox"/>	P101-3	3 pin header		connector (male)	1	BPF-3	BPF-3
<input type="checkbox"/>	T25-6 (yellow)	T25-6 (yellow)	yellow	toroid core	2		BPF-3
<input type="checkbox"/>	#4 nylon	#4 nylon washer		hardware	1	for Q200	
<input type="checkbox"/>	#6 lock washer	#6 lock washer		hardware	1	1 for each PAF board	PAF-3
<input type="checkbox"/>	6-32 1/2"	6-32 1/2" machine screw		hardware	1	1 for each PAF board	PAF-3
<input type="checkbox"/>	6-32 nut	6-32 hex nut		hardware	1	1 for each PAF board	PAF-3
<input type="checkbox"/>	BN-61-2402	BN-61-2402 core	BN-61- 2402	binocular core	2		PAF-3
<input type="checkbox"/>	C200-3	82 pF	82	ceramic	1	PAF-1	PAF-3
<input type="checkbox"/>	C201-3	82 pF	82	ceramic	1	PAF-1	PAF-3
<input type="checkbox"/>	C202-3	220 pF	221	ceramic	1	PAF-1	PAF-3
<input type="checkbox"/>	C203-3	150 pF	151	ceramic	1	PAF-1	PAF-3
<input type="checkbox"/>	C204-3	330 pF	331	ceramic	1	PAF-1	PAF-3
<input type="checkbox"/>	C205-3	150 pF	151	ceramic	1	PAF-1	PAF-3
<input type="checkbox"/>	C206-3	0.1 uF		SMT 1206 CAP (black marked strip)	1	PAF-1	PAF-3
<input type="checkbox"/>	C207-3	0.1 uF		SMT 1206 CAP (black marked strip)	1	PAF-1	PAF-3
<input type="checkbox"/>	C208-3	0.1 uF		SMT 1206 CAP (black marked strip)	1	PAF-1	PAF-3
<input type="checkbox"/>	C209-3	0.1 uF		SMT 1206 CAP (black	1	PAF-1	PAF-3

[]	C210-3	0.1 uF		marked strip) SMT 1206 CAP (black marked strip)	1	PAF-1	PAF-3
[]	C211-3	0.1 uF		SMT 1206 CAP (black marked strip)	1	PAF-1	PAF-3
[]	D200-3	1N4003		Diode	1	FlatV	PAF-3
[]	P200-3	4-pin header		connector (male)	1	PAF-3	PAF-3
[]	P201-3	5-pin header		connector (male)	1	PAF-3	PAF-3
[]	PAF-3	PA/Filter Board		RXTX V6.3 PA/Filter Board	1	PAF-3 30/20/17m	PAF-3
[]	Q200-3	2N2222A		Transistor (NPN) TO-18 can	1	PAF-3	PAF-3
[]	Q200-4	2N2222A		Transistor (NPN) TO-18 can	1	PAF-3	PAF-3
[]	Q201-3	BS170		TO-92 Transistor (N-Channel, FET)	1	PAF-3	PAF-3
[]	Q201-4	BS170		TO-92 Transistor (N-Channel, FET)	1	PAF-3	PAF-3
[]	Q202-3	BS170		TO-92 Transistor (N-Channel, FET)	1	PAF-3	PAF-3
[]	Q203-3	BS170		TO-92 Transistor (N-Channel, FET)	1	PAF-3	PAF-3
[]	Q204-3	2N3904		Transistor (NPN) TO-92	1	PAF-3	PAF-3
[]	R200-3	475	yellow-violet-green-black-brown	Resistor 1%	1	FlatH	PAF-3
[]	R201-3	56.2	green-blue-red-gold-brown	Resistor 1%	1	FlatH	PAF-3
[]	R202-3	68.1	blue-grey-brown-gold-brown	Resistor 1%	1	S-N S-N	PAF-3
[]	R203-3	2.21 k	red-red-brown-brown-brown	Resistor 1%	1	FlatV	PAF-3
[]	R204-3	221	red-red-brown-black-brown	Resistor	1	E-W	PAF-3

[]	R205-3	221	red-red- brown- black- brown	Resistor	1	E-W	PAF-3
[]	R206-3	221	red-red- brown- black- brown	Resistor 1%	1	N-S	PAF-3
[]	R207-3	22.1 k	red-red- brown- red- brown	Resistor 1%	1	N-S	PAF-3
[]	R208-3	2.21 k	red-red- brown- brown- brown	Resistor 1%	1	S-N	PAF-3
[]	R209-3	33.2	orange- orange- red-gold- brown	Resistor 1%	1	N-S	PAF-3
[]	R210-3	2.2	red-red- gold-gold	Resistor 5% 1/4W	1	FlatH	PAF-3
[]	R211-3	2.2	red-red- gold-gold	Resistor 5% 1/4W	1	FlatH	PAF-3
[]	T30-6 (yellow)	T30-6 (yellow)	yellow	toroid core	2		PAF-3
[]	T37-6 (yellow)	T37-6 (yellow)	yellow	toroid core	2		PAF-3
[]	TO18 Heat sink	TO18 Heat sink for Q200		hardware	1	1 for each PAF board	PAF-3
[]	TO220 Heatsink	TO220 Heatsink for Q201-203		hardware	1	1 for each PAF board	PAF-3
[]	TO220 Silpad	Silpad for TO220 heat sink		hardware	1	1 for each PAF board	PAF-3

Inductor Winding Data

Circuit	Designation	Component	(Color) Code	Type	Windings
PAF-3	L200-3	1.6 uH	yellow	T30-6 #30	21 #30 (14")
PAF-3	L201-3	.6 uH	yellow	T37-6 (yellow) #26	14T #26 (10")
PAF-3	L202-3	.6uH	yellow	T37-6 (yellow) #26	14T #26 (10")
PAF-3	T200-3	1.74 uH	yellow	T30-6 #30	primaries 11T bifilar #30 (2x 8in.); secondary 1.74 uH 22T #30 (14 in.)
PAF-3	T201-3			BN-61- 2402	primary 6T of #30 (10 in.); secondaries 3T bifilar of #30 (2x 5 in.)
PAF-3	T202-3			BN-61- 2402	primaries 4T bifilar of #30 (2x 6 in.); secondary 5T of #30 (9 in.)

Special, External LPF for 30m Operation

Check	Designation	Component	(Color) Code	Type	Qty	Notes
[]	C300-3	100 pF	101	ceramic	1	BPF- 30/20/17

<input type="checkbox"/>	C301-3	330 pF (code 331)	331	ceramic	1	BPF-30/20/17
<input type="checkbox"/>	C302-3	100 pF	101	ceramic	1	BPF-30/20/17
<input type="checkbox"/>	L300-3	0.97 uH	yellow	T37-6 (yellow) #26	1	18 T #26 (12")
<input type="checkbox"/>	L301-3	0.97 uH	yellow	T37-6 (yellow) #26	1	18 T #26 (12")

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