

# Softrock RXTX V6.3 - Xtall - 15/12/10m Boards

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## Introduction

Below is the bill of materials for the BPF and PA/Filter boards for the 15/12/10m band.

## Bill of Materials

Check	Designation	Component	(Color) Code	Type	Qty	Notes	Circuit
<input type="checkbox"/>	BPF-Board-4	Board 15/12/10		BPF Board	1	BPF- 15/12/10	BPF-4
<input type="checkbox"/>	C100-4	82 pF (code 82)	82	ceramic	1	BPF- 15/12/10	BPF-4
<input type="checkbox"/>	C101-4	330 pF (code 331)	331	ceramic	1	BPF- 15/12/10	BPF-4
<input type="checkbox"/>	P100-4	2-pin header		connector (male)	1	BPF-4	BPF-4
<input type="checkbox"/>	P101-4	3 pin header		connector (male)	1	BPF-4	BPF-4
<input type="checkbox"/>	T25-6 (yellow)	T25-6 (yellow)	yellow	toroid core	2		BPF-4
<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-4
<input type="checkbox"/>	6-32 1/2"	6-32 1/2" machine screw		hardware	1	1 for each PAF board	PAF-4
<input type="checkbox"/>	6-32 nut	6-32 hex nut		hardware	1	1 for each PAF board	PAF-4
<input type="checkbox"/>	BN-61-2402	BN-61-2402 core	BN-61- 2402	binocular core	2		PAF-4
<input type="checkbox"/>	C200-4	47 pF	47	ceramic	1	PAF-4	PAF-4
<input type="checkbox"/>	C201-4	22 pF	22	ceramic	1	PAF-4	PAF-4
<input type="checkbox"/>	C202-4	220 pF	221	ceramic	1	PAF-4	PAF-4
<input type="checkbox"/>	C203-4	100 pF	101	ceramic	1	PAF-4	PAF-4
<input type="checkbox"/>	C204-4	180 pF	181	ceramic	1	PAF-4	PAF-4
<input type="checkbox"/>	C205-4	100 pF	101	ceramic	1	PAF-4	PAF-4
<input type="checkbox"/>	C206-4	0.01 uF		SMT 1206 CAP	1	PAF-4	PAF-4
<input type="checkbox"/>	C207-4	0.01 uF		SMT 1206 CAP	1	PAF-4	PAF-4
<input type="checkbox"/>	C208-4	0.01 uF		SMT 1206 CAP	1	PAF-4	PAF-4
<input type="checkbox"/>	C209-4	0.01 uF		SMT 1206 CAP	1	PAF-4	PAF-4
<input type="checkbox"/>	C210-4	0.01 uF		SMT 1206 CAP	1	PAF-4	PAF-4
<input type="checkbox"/>	C211-4	0.01 uF		SMT 1206 CAP	1	PAF-4	PAF-4

[ ]	CA-4	22 pF	22	ceramic	1	PAF-4	PAF-4
[ ]	D200-4	1N4003		Diode	1	FlatV	PAF-4
[ ]	P200-4	4-pin header		connector (male)	1	PAF-4	PAF-4
[ ]	P201-4	5-pin header		connector (male)	1	PAF-4	PAF-4
[ ]	PAF-4	PA/Filter Board		RXTX V6.3 PA/Filter Board	1	PAF-4 15/12/10m	PAF-4
[ ]	Q202-4	BS170		TO-92 Transistor (N-Channel, FET)	1	PAF-4	PAF-4
[ ]	Q203-4	BS170		TO-92 Transistor (N-Channel, FET)	1	PAF-4	PAF-4
[ ]	Q204-4	2N3904		Transistor (NPN) TO-92	1	PAF-4	PAF-4
[ ]	R200-4	475	yellow- violet- green- black- brown	Resistor 1%	1	FlatH	PAF-4
[ ]	R201-4	56.2	green- blue-red- gold- brown	Resistor 1%	1	FlatH	PAF-4
[ ]	R202-4	68.1	blue-grey -brown- gold- brown	Resistor 1%	1	S-N	PAF-4
[ ]	R203-4	2.21 k	red-red- brown- brown- brown	Resistor 1%	1	FlatV	PAF-4
[ ]	R204-4	221	red-red- brown- black- brown	Resistor 1%	1	E-W	PAF-4
[ ]	R205-4	221	red-red- brown- black- brown	Resistor 1%	1	E-W	PAF-4
[ ]	R206-4	221	red-red- brown- black- brown	Resistor 1%	1	N-S	PAF-4
[ ]	R207-4	22.1 k	red-red- brown- red- brown	Resistor 1%	1	N-S	PAF-4
[ ]	R208-4	2.21 k	red-red- brown- brown- brown	Resistor 1%	1	S-N	PAF-4
[ ]	R209-4	33.2	orange- orange- red-gold- brown	Resistor 1%	1	N-S	PAF-4

[ ]	R210-4	2.2	red-red-gold-gold	Resistor 5% 1/4W	1	FlatH	PAF-4
[ ]	R211-4	2.2	red-red-gold-gold	Resistor 5% 1/4W	1	FlatH	PAF-4
[ ]	T30-6 (yellow)	T30-6 (yellow)	yellow	toroid core	2		PAF-4
[ ]	T37-6 (yellow)	T37-6 (yellow)	yellow	toroid core	2		PAF-4
[ ]	TO18 Heat sink	TO18 Heat sink for Q200		hardware	1	1 for each PAF board	PAF-4
[ ]	TO220 Heatsink	TO220 Heatsink for Q201-203		hardware	1	1 for each PAF board	PAF-4
[ ]	TO220 Silpad	Silpad for TO220 heat sink		hardware	1	1 for each PAF board	PAF-4

## Inductor Winding Data

Circuit	Designation	Component	(Color) Code	Type	Windings
PAF-4	L200-4	2.1 uH	yellow	T30-6 #30	24 #30 (15")
PAF-4	L201-4	.36 uH	yellow	T37-6 (yellow) #26	11T #26 (9")
PAF-4	L202-4	.36 uH	yellow	T37-6 (yellow) #26	11T #26 (9")
PAF-4	T200-4	0.81 uH	yellow	T30-6 #30	primaries 8T bifilar #30 (2x 6in.); secondary 0.81 uH 15T #30 (11 in.)
PAF-4	T201-4			BN-61-2402	primary 5T of #30 (10 in.); secondaries 3T bifilar of #30 (2x 5 in.)
PAF-4	T202-4			BN-61-2402	primaries 3T bifilar of #30 (2x 6 in.); secondary 5T of #30 (9 in.)

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