

**GuitarAmplifierPCBs.com**  
**18 Watt Litelb "Baby Will"**  
**(Version 2.3)**

**Parts List for Valve Junior Conversion**

*These prices will change without notice.  
 Use these prices ONLY for estimation purposes.  
 Refer to each supplier's web site for current price quotes.*

[GuitarAmplifierPCBs](#)

Part #	Quantity	Datasheet	Component Type	Description	Manufacturer	Price (Each)	Price (Total)
18 Watt Litelb PCB	1		Circuit Board	Baby Will		\$25.00	\$25.00
							<b>\$25.00</b>

[Musical Power Supplies](#)

Part #	Quantity	Datasheet	Component Type	Description	Manufacturer	Price (Each)	Price (Total)
OT20PP	1		Output Transformer	18 Watt Push-Pull OT	MPS	\$28.95	\$28.95
							<b>\$28.95</b>

[Mouser](#)

Part #	Quantity	Datasheet	Component Type	Description	Manufacturer	Price (Each)	Price (Total)
C1, C2, C13	3	<a href="#">647-UVZ2W330MHD</a>	Capacitor - Electrolytic	33 µF 450V - Radial	Nichicon	\$1.26	\$3.78
C3	1	<a href="#">647-UVZ2W220MHD</a>	Capacitor - Electrolytic	22 µF 450V - Radial	Nichicon	\$0.88	\$0.88
R16	1	<a href="#">71-CP0005150R0JE14</a>	Resistor - Wire Wound	150 Ω 5W	Vishay / Dale	\$0.28	\$0.28
R2	1	<a href="#">594-5093NW2K200J</a>	Resistor - Metal Film	2.2 KΩ 3W	Vishay / BC Comp.	\$0.46	\$0.46
R5	1	<a href="#">594-5083NW8K200J</a>	Resistor - Metal Film	8.2 KΩ 2W	Vishay / BC Comp.	\$0.32	\$0.32
R3, R4	2	<a href="#">594-5093NW1K000J</a>	Resistor - Metal Film	1 KΩ 3W	Vishay / BC Comp.	\$0.46	\$0.92
R8, R24	2	<a href="#">594-5083NW56K00J</a>	Resistor - Metal Film	56 KΩ 2W	Vishay / BC Comp.	\$0.32	\$0.64
R6, R7	3	<a href="#">594-5083NW100K0J</a>	Resistor - Metal Film	100 KΩ 2W	Vishay / BC Comp.	\$0.32	\$0.96
R1	1	<a href="#">594-5083NW470K0J</a>	Resistor - Metal Film	470 KΩ 2W	Vishay / BC Comp.	\$0.32	\$0.32
R11, R12, R14, R17	4	<a href="#">294-470K-RC</a>	Resistor - Carbon Film	470 KΩ 1W	Xicon	\$0.18	\$0.72
R15, R18	2	<a href="#">294-8.2K-RC</a>	Resistor - Carbon Film	8.2 KΩ 1W	Xicon	\$0.18	\$0.36
R13	1	<a href="#">294-47K-RC</a>	Resistor - Carbon Film	47 KΩ 1W	Xicon	\$0.18	\$0.18
R9, R10	2	<a href="#">294-820-RC</a>	Resistor - Carbon Film	820 Ω 1W	Xicon	\$0.18	\$0.36
R21, R23	2	<a href="#">294-10K-RC</a>	Resistor - Carbon Film	10 KΩ 1W	Xicon	\$0.18	\$0.36
R19	1	<a href="#">294-1M-RC</a>	Resistor - Carbon Film	1 MΩ 1W	Xicon	\$0.18	\$0.18
D1, D2, D3, D4	2	<a href="#">660-MF1/2CC1000F</a>	Resistor - Metal Film	100 Ω ½W	KOA Speer	\$0.18	\$0.36
	4	<a href="#">512-UF4007</a>	Rectifier Diode	Fast/Soft Recov. 1A	Fairchild	\$0.19	\$0.76
	1	<a href="#">855-R30-1011002</a>	PCB Standoff	10 mm - Hex	Harwin	\$0.43	\$0.43
	2	<a href="#">48SM003</a>	Steel Screw - Pan / Phillips	3 mm X 6 mm	Eagle Plastic Dev.	\$0.12	\$0.24
	2	<a href="#">5164-2300</a>	Control Knob	Chicken Head	Davies Molding	\$1.55	\$3.10
							<b>\$15.61</b>

[Antique Electronic Supply](#)

Part #	Quantity	Datasheet	Component Type	Description	Manufacturer	Price (Each)	Price (Total)
18 Watt Litelb PCB							
P-EVJ	1		AES Parts Pack	Baby Will 18W	(10% Discount)	\$26.78	\$26.78
T-12AX7-S-JJ	2		Pre-Amplifier Tube	12AX7 S JJ	JJ Tesla	\$9.50	\$19.00
T-EL84-JJ	1		Power Tube	EL84 (Matched Pair)	JJ Tesla	\$21.50	\$21.50
							<b>\$67.28</b>

**Total \$136.84**

*AES part # P-EVJ includes the following components. These parts are offered with a 10% discount.*

C4, C10	2	<a href="#">C-ET47-50</a>	Capacitor - Electrolytic	47 µF 50V			
C7	1	<a href="#">C-MD1-630</a>	Capacitor - 150's	0.1 µF 630V	Mallory		
C5	1	<a href="#">C-MD0047-630</a>	Capacitor - 150's	0.0047 µF 630V	Mallory		
C6, C8, C9, C12	4	<a href="#">C-MD01-630</a>	Capacitor - 150's	0.01 µF 630V	Mallory		
C11	1	<a href="#">C-SM500</a>	Capacitor - Silver Mica	500 pF 500V			
R20	1	<a href="#">R-R150</a>	Resistor - Wire Wound	150 Ω 10W			
Volume / Tone	2	<a href="#">R-VA500K</a>	Potentiometer	24mm 500K Audio	Alpha		
	4	<a href="#">P-ST9-620</a>	PC Mount Tube Socket	9-Pin Standoff	Belton		
	2	<a href="#">S-H144</a>	Tube Retainer	EL84 Tubes			
	2	<a href="#">P-SS9-400</a>	9-Pin Tube Shield	Aluminum	Belton		