

8.15.15

Breakout Buffer Parts List

Type	Reference	Description
100 ohm	R4	
10K	R2, R5	10k used in place of 4.7k for a more sluggish effect
47K	R3, R6, R7, R8	Transistor bias
100K	R1, R9	R9 is not used
15pf	C1, C2, C3, C4	
100pf	C5	
10uf	C7	
4M	For Diode Bias	Use R10-470k and jumper strip, Pot not used
10K	RF Mixer	Potentiometer for RF blend level, on board
470K	R10	Minimum bias value to get best Clara sound
1N914	D1	Diode for RF Mixing
1N4007	D2, D3, D4	Diode general purpose rectifier, 1 A
2N3904	Q1, Q2	NPN emitter follower used to buffer RF signals
3.5mm Terminals	x4	Better to solder direct and not use a terminals
Below Not at Mouser		
Brass Screw	3/4" 6-32	This holds the Breakout Buffer board in place
Rubber Foot		The Breakout board sit on top of this foot
2-pin jumper	Switch	Changes diode bias resistance from 100k to 570k
4-Pin strip	+V O In gnd	Use ribbon cable to connect to Harmonic Exciter board.

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