Shaka-Smooth

Based upon original Shaka designs by Aron Nelson, Jack Orman, and Doug Hammond

Notes:

- A1 can be any op amp. Power connections and isolation of other op amp assumed.
- D1, D2, D3 are all 1N4148, but may be any type, adjust to taste.
- All Resistors 1/4 W, 5%.
- All Caps film types.
- All Pots linear.

Modifications:

- C2, C5, and C8 and all coupling capacitors; lower values roll of more bass.
- C4 Controls bass roll off of op amp gain stage, decrease value to roll of more bass.
- R6 has no series resistance to allow rolling the gain completely off to use the op amp stage as an input buffer. Adding series resistance will raise minimum gain.
- R7 can be bypassed by low value caps to preserve high frequencies at low drive settings.
- R9 controls gain of FET stage. Higher values lower gain.
- Sum of C9 and C10 determines high end roll off corner frequency of Tone control. More capacitance lowers roll off.
- Diode arrangement may be any conbination of diodes or diode connected transistors.
- Remove D2 for symmetrical clipping.