

ARIES AR-314 VOLTAGE CONTROLLED FILTER MODULE

The AR-314 is a basic 12db-per octave low pass filter with voltage controllable cut-of frequency and variable resonance (Q). This filter modifies the harmonic content, or spectrum, of an incoming signal by damping all frequency components of the waveform above a certain cut-off point. The resonance control boosts the amplitude of the frequency, or harmonic of the incoming wave, closest to the cut-off frequency, by a variable amount according to the manual setting. The control input varies the cut-off frequency at 1 octave per volt of input signal: positive voltage will raise the cut-off and negative voltage will lower it.

SPECIFICATIONS:

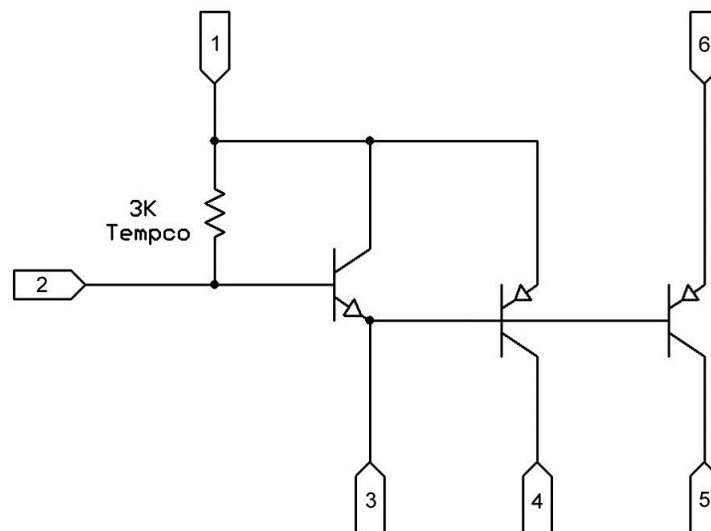
- Frequency Response: 16Hz to 16KHz
- Q (Gain at Cut-off Freq.): 0.5 to 50
- Maximum Signal Level: +/-10v. peak
- Signal-to-Noise Ratio: 70db min.
- Control Input: +/-10v; 0v-1v./octave
- Signal Input Impedance: 50 ohms min.
- Control Input Impedance: 50 ohms min.
- Output Impedance: 1K ohms

CONTROLS:

- Initial Freq., Resonance (Q), Signal 1 Input Attenuator Control 1 Input Attenuator
- Connectors: • 4 Signal Inputs
- 4 Control Inputs
- 2 Outputs

POWER CONSUMPTION

- 4 mA at +15V
- 2 mA at -15V



U6 Exponential Converter schematic

VCF

250 1K
64 4K
16 16K
FREQ.(HZ.)

MIN. MAX.
RESONANCE

4 5 6
3 7
2 8
1 9
0 10
AUDIO 1

4 5 6
3 7
2 8
1 9
0 10
CONTROL 1

1	1	1
2	2	2
3	3	3
4	4	TEST

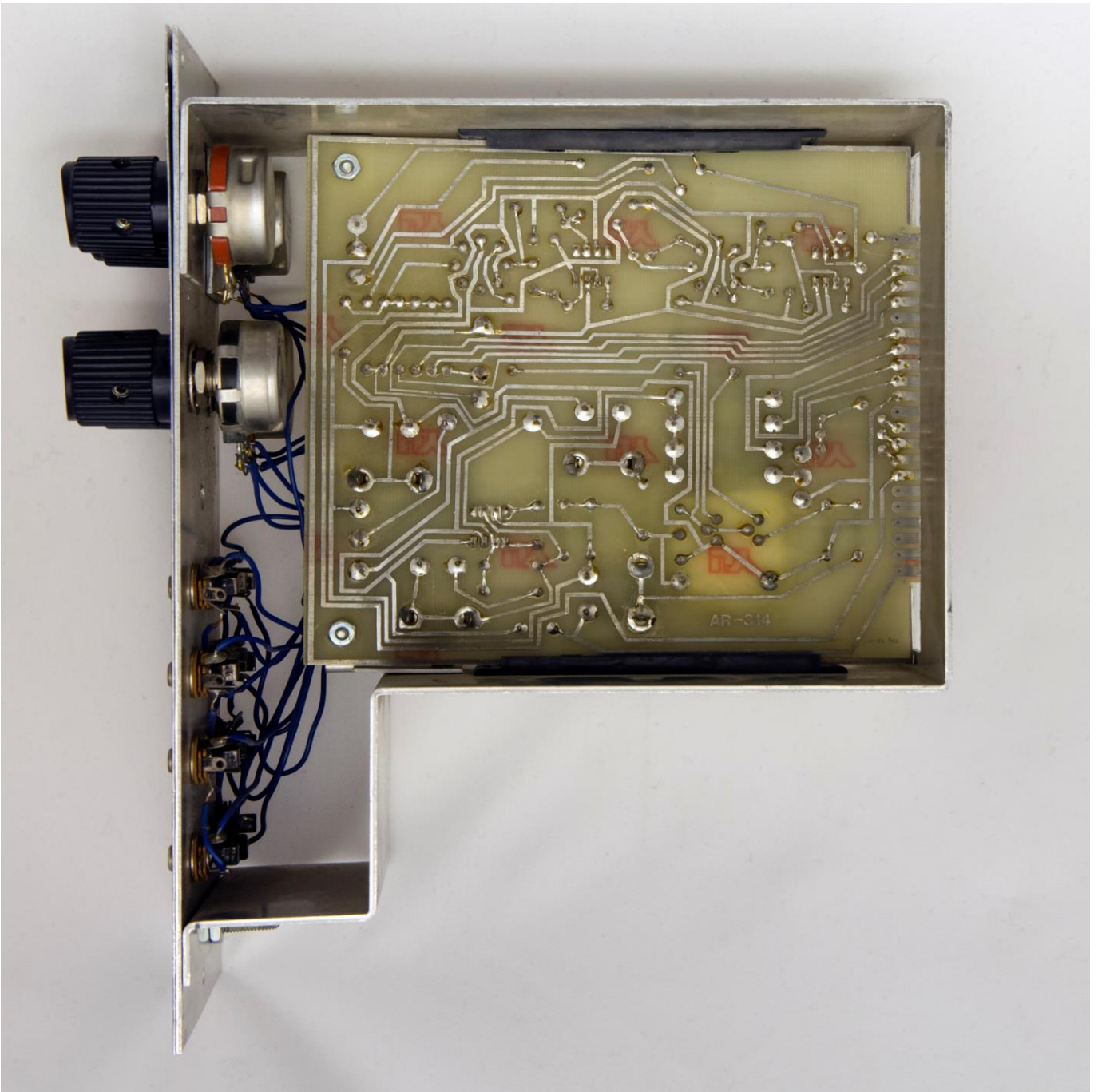
AUDIO

CONTROL

OUTPUTS

AR-314





AR-314 VOLTAGE CONTROLLED LOWPASS FILTER

HIGHEST REFERENCE
DESIGNATION:
C8
G5
R41
U5

