NOTES:
1. ALL RESISTORS ARE 0.25W 10% UNLESS OTHERWISE SPECIFIED
2. Q1 AND Q2 ARE SELECTED (A2803-003-1)
3. Z2 (RED), Z3 (ORANGE), AND Z4 (YELLOW) ARE SELECTED
4. R28 IS PRESENT IN LATER REVISIONS ONLY
5. Z5 IS SELECTED FOR LOW OFFSET (SL19986)

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**Diagram Description**

- **Exponential Converter**
  - Components include resistors R1 and R10, capacitors C3, and op-amps Z1A and Z1B.

- **Filter Ladder**
  - Components include resistors R2 to R7, capacitors C1 to C5, and op-amps Z1C to Z1E.

- **High-Impedance Buffers**
  - Components include resistors R8 and R9, capacitors C6 and C7, and op-amps Z2A to Z2E.

- **Differential Amplifier**
  - Components include resistors R10 to R26, capacitors C8 and C9, and op-amp Z5.

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**Notes**

- Z2, Z3, and Z4 are selected.
- R28 is present in later revisions only.
- Z5 is selected for low offset.

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**Title**

VOLTAGE CONTROLLED LOW-PASS FILTER

**Design by**

ARP INSTRUMENTS, INC.

**Assembly**

J VERGHESE

**Date**

12-AUG-96

**Patent Numbers**

US #3,475,623
US #3,444,362

**Diagram Number**

4034