

The schematic diagram illustrates the electrical design of a MAC Individual Subsystem. Key components and their connections include:

- Power Section:** A 12V input is connected to a 1.5A PTC fuse (F2), followed by a 3A 40V Schottky diode (D) and a 1.5K16A diode (D1). The output is regulated to 12V.
- Reference and Input Section:** A voltage divider (R2, R3, R4) provides a VREF signal. A microphone (MK1) is connected to a 476fF high-pass RC filter (C6) and a 4.7k Ohm low-pass RC filter (R8). The output is labeled MIC_OUT.
- Core IC:** The MAC-MCP6002-1/P (U1) is the central component, connected to a 5V supply (C5) and having multiple test points (TP2, TP3, TP5, TP6, TP7, TP8, TP9).
- Output Section:** The output is connected to a 476fF high-pass RC filter (C6) and a 4.7k Ohm low-pass RC filter (R8). The output is labeled DigiOut.
- Tables:**
 - MAC 70246-0801:** A table showing pin connections for the MAC 70246-0801 component.
 - MAC-MCP6002-1/P:** A table showing pin connections for the MAC-MCP6002-1/P component.

The schematic is labeled with various components like resistors (R1-R9), capacitors (C1-C9), and test points (TP1-TP9). It also includes a table for the MAC 70246-0801 component and a table for the MAC-MCP6002-1/P component.

V2 Simple test bed

