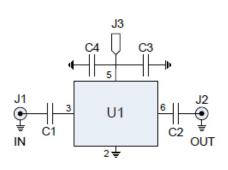
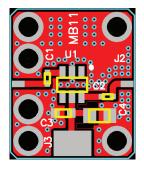


FEATURES

- Fits Hittite 6-pin SOT-23 prescaler packages
- Divide by 2/4/8 configurations
- Input frequencies up to 8 GHz
- DC blocks on input and output
- RO-4350 board material
- Fits MicroAmp MH-series housings

The MicroAmp MB-11 circuit board is designed for rapid prototyping of Hittite Microwave 6-pin SOT-23 prescalers. HMC-43X prescalers are available in divide by 2/4/8 versions (HMC-432/433/434) which operate at input frequencies as high as 8 GHz. This board will fit the MicroAmp MH series of connectorized housings that allow it to be used as a single prescaler or cascaded with other MicroAmp boards for added versatility. Boards are fabricated from a high-performance 13 mil thick RO-4350 laminate with RoHS compatible ENIG plating (electroless nickel/immersion gold) on both the component side and the solid bottom ground plane. The board measures 0.490" x 0.590" and mounts into the housing with four or six #1-72 screws to insure optimal grounding for high frequency operation. Prescaler circuits can be easily assembled with standard surface-mount passive components. It includes provisions for input and output DC blocking capacitors and bias bypass capacitors. Pads for the RF input/output connectors allow the SMA center pins to be easily soldered to the board after it is installed into the housing, as well as a large pad to connect the bias voltage to the feed-through. These prescalers have a tendency to output broadband noise or oscillations when not driven with sufficient input power. Consult the Hittite data sheets for proper drive levels.





| REF | SIZE | FUNCTION |
|-----|-----------|-----------------------|
| | | |
| C1 | 0402 | DC block |
| C2 | 0402 | DC block |
| C3 | 0603 | Bypass |
| C4 | 0603/0805 | Bypass |
| U1 | SOT-23 | Prescaler |
| J1 | | Signal input (pin 3) |
| J2 | | Signal output (pin 6) |
| J3 | | Bias (pin 5) |
| | | |

PRESCALER SCHEMATIC

ASSEMBLY

Mouser Electronics

Authorized Distributor

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