

High Sierra MICROWAVE

Description.

The FCD-6MTR-UC is designed to upconvert the 50 to 54 Mhz 6 meter band to an IF of 116 to 120 Mhz, which is within the receiving range of the FUNCube Dongle software defined radio. The design uses a low insertion loss 2 pole input bandpass filter to provide excellent out of band rejection to interfering signals. The use of a high dynamic range MMIC and a passive mixer contribute to the high signal handling capability of the converter, while maintaining a low noise figure.

Features.

- RF input level of -5 dBm before compression.
- Can be powered directly or through appropriate bias tee.
- Operates on +5 Vdc @ 85 mA typical
- Internal voltage regulator with reverse polarity protection.
- Rugged cast aluminum housing.
- Available with RF connector options (consult factory).

Specifications.

- RF Frequency..... 50 to 54 MHz
- IF Frequency..... 116 to 120 MHz
- LO Frequency..... 66 MHz
- Noise Figure..... 2.5 dB maximum, 1.9 dB typical
- Overall Gain..... 20 dB, minimum
- Impedance..... 50 ohm
- Connectors..... BNC Female
- Shipping Weight..... Less than 1 lb (0.454 Kg)
- Size..... See outline drawing

Note: Specifications subject to change

For price, delivery and to place orders, please contact

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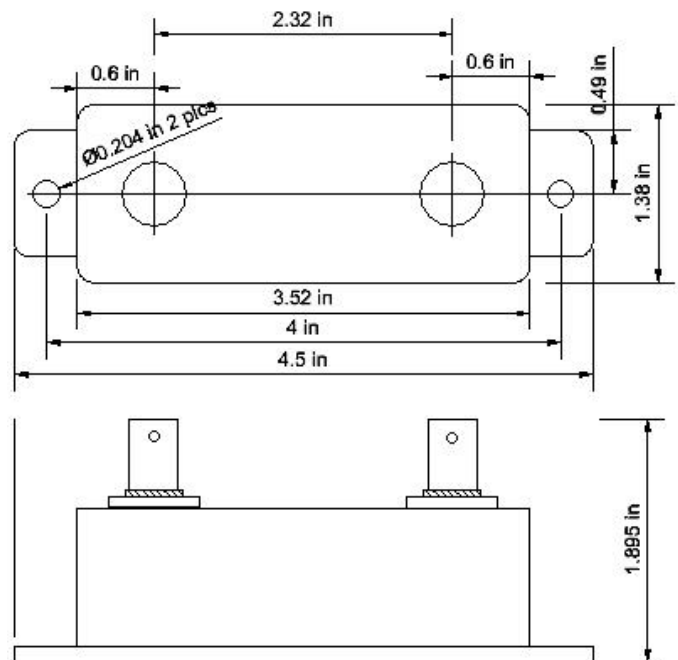
www.hsmicrowave.com

Model FCD-6MTR-UC

**50 to 54 MHz Up Converter
For use with the
FUNCube Dongle**



Outline Drawing



Block Diagram

