

A. Frequency Of Operation:

Transmit band of **1610 to 1626.5 MHz**, Receive band of **2483.5 to 2500 MHz**.

The Beam Monitor and Portable/Mobile UT's are designed with the capability to operate in the **1610 - 1626.5 MHz** band and it is intended that the equipment be operated over this entire band under this experimental license.

B. Antenna Polarization:

Left Hand Circular

C. Maximum EIRP

Beam Monitor:

The maximum R.F. power available at the Antenna = 2.5W.(4dBW)

The antenna Gain = 21 dB

Maximum EIRP = 25 dBW

Portable/Mobile UT:

The maximum R.F. power available at the Antenna = 2.0W.(4dBW)

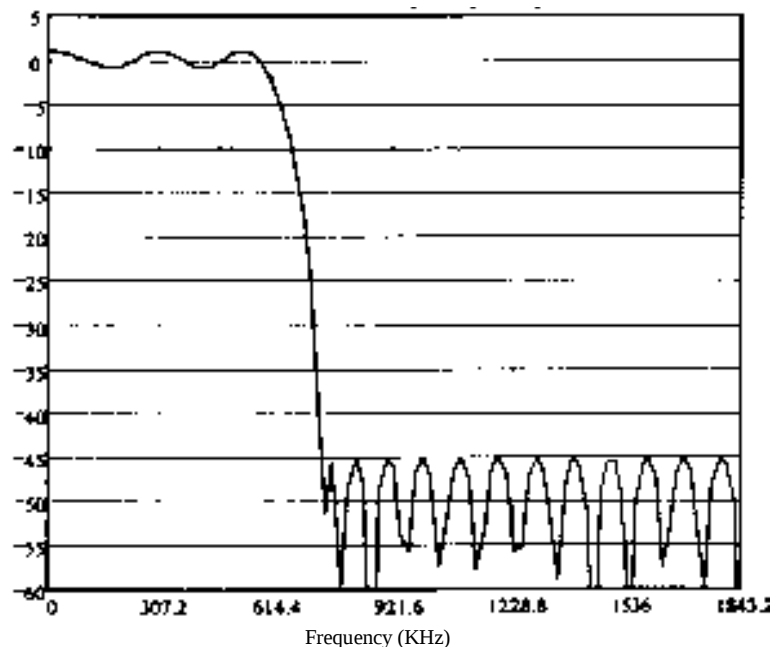
The antenna Gain = 3 dBi

Maximum EIRP = 7 dBW

D. Modulation:

Description of Modulation: The Globalstar™ MES transmitter utilizes direct sequence spreading at a chip rate of 1.2288 MHz. Baseband filtering is implemented as shown in the figure below. In phase and quadrature signals are combined to form OQPSK modulation.

Baseband Filter Frequency Response



Power is continuous for 9600, 4800, and 2400 bps modes and is spread by a direct sequence with chip rate 1.2288 MHz. The output power changes in accordance with the data rate for the frame.