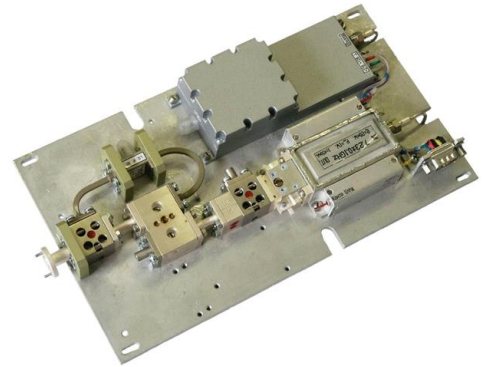


- High accuracy
- On-line measurement
- High directivity with small antennas

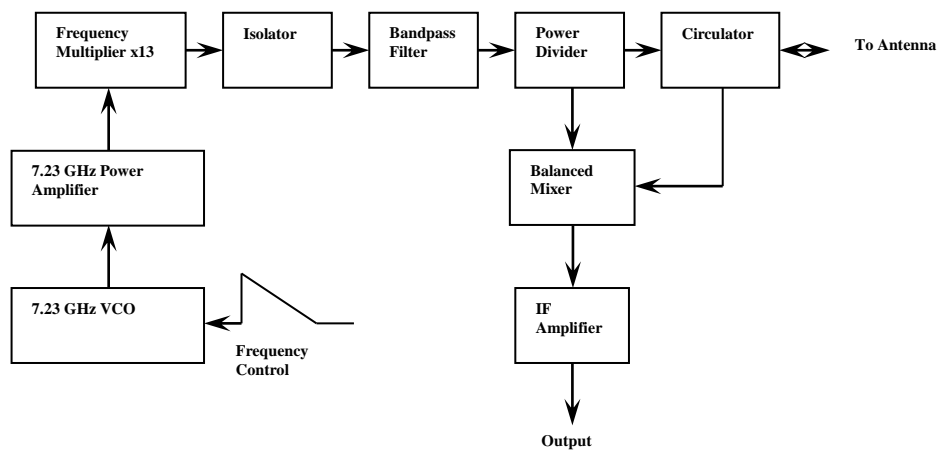
- Portability
- Environmental safety
- Equipped with antennas by customer's choice

Applications

- Ground control in airports and other facilities
- Avoid collision systems
- Precise distance measurement in dusty and/or humid atmosphere
- Level sensing for any materials and liquids in huge tanks with foam/vapour
- Robotic sensors



Block Diagram of FMCW-10/94 front end module.



Specifications

- | | |
|---------------------------------------|--|
| • Centre Frequency: | 94 GHz |
| • Radar front-end wattage | 10mW |
| • Frequency Stability: | $5 \cdot 10^{-6}$ 1°C |
| • Sweep Range: | 200 MHz (min) |
| • Minimal Sweeping Time: | 100 μ Sec |
| • Linearity: | 0.7% (max) |
| • Tuning Sensitivity: | >50 MHz/V |
| • Output RF Power: | +10 dBm (min) |
| • Reverse Isolation: | 17 dB (min) |
| • IF Frequency: | 4 kHz to 2 MHz |
| • RF to IF Gain: | 32 dB (typ) |
| • Waveguide/Flange: | WR-10 / UG-387/U-M |
| • IF and Frequency Control Connector: | SMA (f) |
| • DC Power: | +12V/300mA, -12V/50mA +27V/200mA/(+500mA heater) |
| • Mass: | 1200 gram (max) |
| • Operating Temperature: | -40 to +70 deg |

Outline Drawing.

