	<b>OBRF2402 Module Instructions</b>		Version: 1.1 State: 2005-07-28
Made by: Dipl.-Ing.(FH) Erik Laatsch	Electronics Development Engineer		
Validated: Dipl.-Ing.(FH) Erik Laatsch			
Clearance: Dipl.-Ing.(FH) Erik Laatsch			

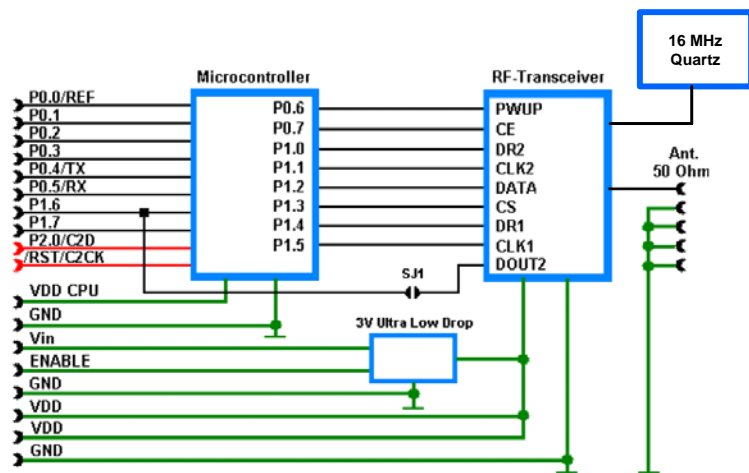
## General description

This document shall describe on how to use the OBRF2401 module in RF-Applications.

## Module description

The OBRF2402 Module  
Otto Bock HealthCare  
Germany

*Otto Bock*



**Figure 1: The OBRF2402 module scheme**

1. The module shall be only connected to antennas that have an impedance of 50 Ohms to ensure proper frequency and amplitude behaviour. The same restrictions apply to the antenna feeder-line. The maximum antenna gain is 0 dBi.
2. On the board layout sufficient distance from antenna to ground layers must be assured as shown in Figure 2 to avoid amplitude and frequency deviations. This is described in data sheets of the antenna used.
3. Ground layers on the bottom side of the PCB under the antenna must be avoided.
4. Voltage supply must be jitter free and if a switched power source is used sufficient filtering with capacitors is needed. Nevertheless the ultra low drop voltage regulator does additional filtering and the module has its own filter capacitors.



**Figure 2: Example board layout.**

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### IC Compliance

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.