

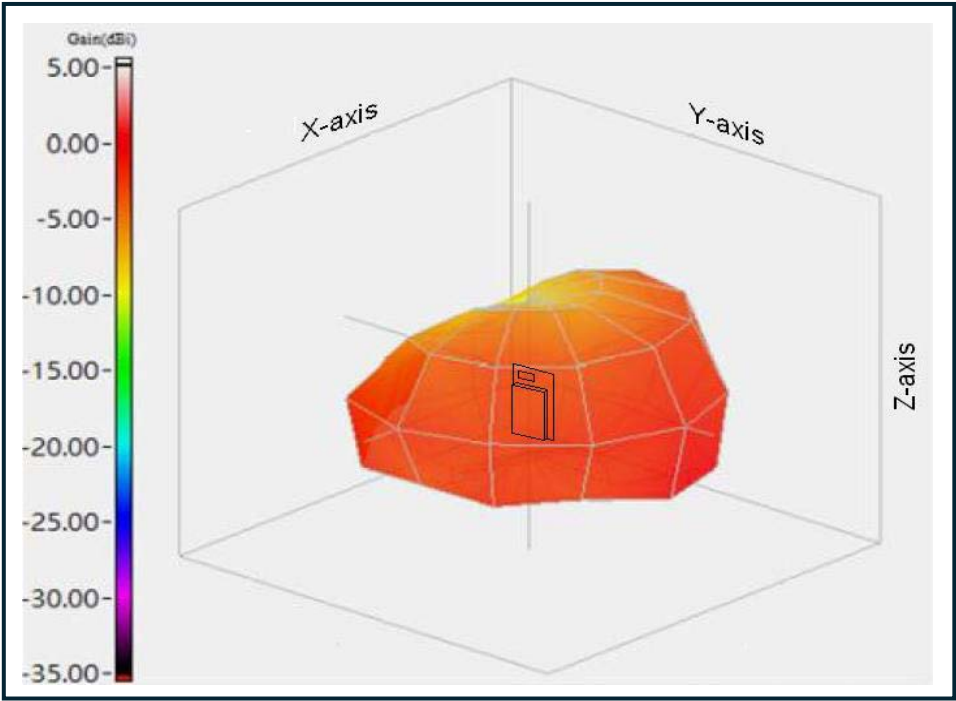
1.0 ANTENNA

1.1 Antenna Characteristics

1.1.2 BM71BLES1FC2 CERAMIC CHIP ANTENNA

The BM71BLES1FC2 module contains an inbuilt ceramic chip antenna. The figure below illustrates the antenna radiation pattern of the ceramic chip antenna on the BM71BLES1FC2 module.

FIGURE 1-1: BM71BLES1FC2 ANTENNA RADIATION PATTERN



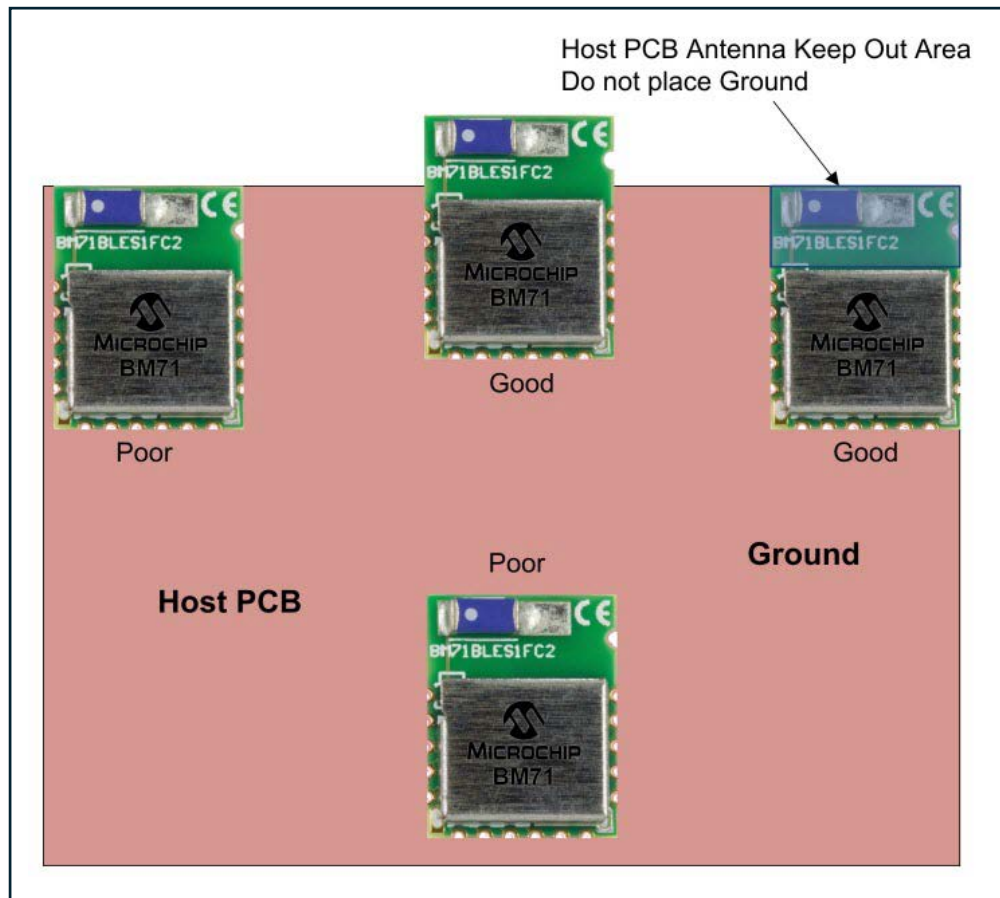
The table below provides the antenna radiation pattern details of the BM71BLES1FC2 module.

TABLE 1-2: BM71BLES1FC2 ANTENNA RADIATION PATTERN DETAILS

| Parameter  | Values   |
|------------|----------|
| Frequency  | 2442 MHz |
| Peak Gain  | 0.1 dBi  |
| Efficiency | 42.7%    |

The figure below illustrates a typical example of good and poor antenna placement of the BM71BLES1FC2 module on the main application board with the ground plane.

**FIGURE 1-3: BM71BLES1FC2 ANTENNA PLACEMENT EXAMPLES**



## 1.3 Antenna Considerations

The table below provides the part number and manufacturer details of the antenna used on the BM71BLES1FC2 module.

**TABLE 1-4: BM71BLES1FC2 ANTENNA DETAILS**

**Description Part Number Manufacturer**

ANT ANT3216LL00R2400A 2.4 GHZ L3.2W1.6 ANT3216LL00R2400A YAGEO

| Description                            | Part Number       | Manufacturer |
|----------------------------------------|-------------------|--------------|
| ANT ANT3216LL00R2400A 2.4 GHZ L3.2W1.6 | ANT3216LL00R2400A | YAGEO        |