

6190 Circuit Description

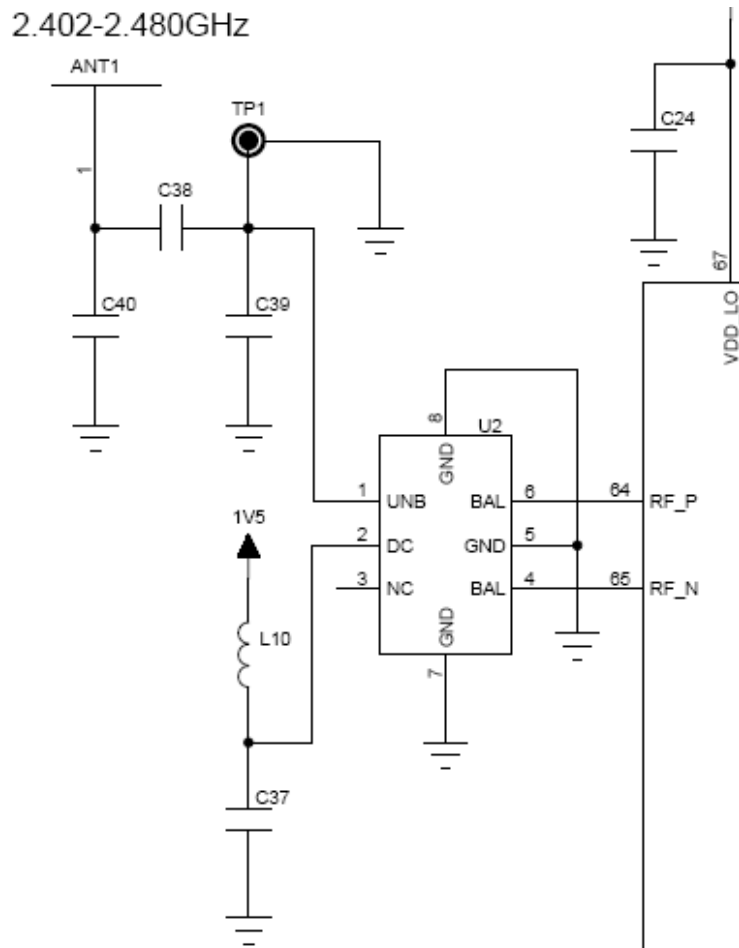
BC05 QFN

QFN(BC57F687A05) U1

The BlueCore device, U1, selected for this design is a BC05 QFN Low-cost ROM Stereo Headset Solution.

RF Front-End

Figure 1 shows the proportion of the schematic associated with the RF front-end



(1)

It consists of:

- A balanced antenna filter, U2, a Soshin DBF81F104. The main benefits of this component is its small form factor and low cost when compared to a separate filter/balun solution.
- An LC network, L10 and C37. This provides a DC bias for the BlueCore5-Multimedia ROM QFN from the 1.5V rail.

- corresponding DC blocking capacitors C38 and match a network C39, C40.
- A printed meander line antenna The ANT1 connected the DBF81F106 UNB PIN through a C38.
- U2 is connected directly to the RF pins, 7 and 8 of the BC05 QFN.