

Antenna Description

Name: Hopper Controller

Model ID: FTW000223

Bluetooth Antenna Hopper Controller

The Hopper Remote Bluetooth antenna is an edge coupled $1/4$ wave radiator at the desired center frequency of 2.440GHz. This antenna is embedded in the printed circuit board. It is a folded trace on the top side of the board 25mm in length, acting as a dipole with much less than ideal ground conditions. The trace is folded over so that it runs parallel to the ground plane at a distance of 4mm. The antenna gain will be lower than the 2.1dBi of an ideal dipole due to the proximity of the ground plane. This antenna is not intended or need to be high efficiency or high gain, in fact it is intended to be low gain. Expected efficiency will be approximately 10% or less.