

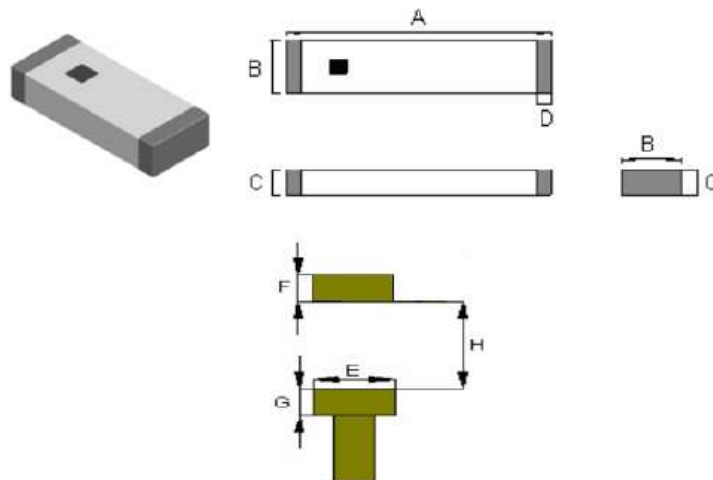
L3-010 kGoal Classic Antenna Specification

1. **Company:** Therapy Holdings, Inc.
2. **Product name:** L3-010 kGoal Classic
3. **RF module / chip:** Nordic nRF52832 Bluetooth Low Energy transceiver MCU
4. **Antenna description:**

Antenna type	Chip antenna
Antenna manufacturer	Abracon
Antenna PN	AMCA31-2R450G-S1F-T3
Antenna datasheet	https://www.dropbox.com/s/yrxcz3opk93k6m9/AMCA31-2R450G-S1F-T3%20antenna.pdf?dl=0
Frequency range	2402 MHz - 2480 MHz
Modulation	GFSK
Antenna gain max (peak)	-3.53 dBi
Cable loss	N/A; no cable used
Connector type	N/A; PCBA chip antenna soldered to board

5. Antenna layout:

Product Dimensions and PCB Land Drawing (Unit: mm)



This is the feed-line to the Antenna and should be matched to 50 Ohms based upon the PCB dielectric parameters.

Series	A	B	C	D	E	F	G	H
AMCA31	3.2±0.2	1.6±0.2	1.2±0.2	0.5±0.2	1.6±0.2	0.8±0.2	0.8±0.2	2.6±0.2

6. Antenna photo:

