

UHF Deployable Helical Antennas for CubeSats

J. Costantine, Y. Tawk, I. Maqueda, M. Sakovsky, G. Olson, S. Pellegrino, C. G. Christodoulou

Abstract—The design process and the deployment mechanism of a quadrifilar helix antenna and a conical log spiral antenna are presented. The two antennas are proposed to operate in the UHF frequency band. They are composed of conductors that are embedded and supported by innovative structural techniques. This allows efficient folding, packaging and deployment once in space. The conductors in the quadrifilar helix antenna are composed of beryllium copper and are supported by helical arms of S_2 glass fiber reinforced epoxy. The conical log spiral antenna, on the other hand, has conductors that are made out of a mesh of phosphor bronze and incorporated inside thin insulators composed of continuous fiber composites. The new aspects of these designs lie in their structures and deployment mechanisms. The deployment mechanisms for both antennas include helical pantographs and origami patterns such as Z-Folding configurations. Both antennas are fabricated and tested for both deployment and radiation performance. A comparison is executed between both designs and their potential deployment possibilities from CubeSats is also investigated.

Index Terms—Helical Antennas, Quadrifilar Helix Antenna, Conical Log Spiral Antenna, Deployable Antennas, CubeSat, Space Communications, Balun, Helical Pantograph, Z-Folding, Origami.

I. INTRODUCTION

The design of novel space antenna concepts that cover different frequency ranges constitutes a major challenge. There is a rise in the development of nano-satellites such as CubeSats, due to their ease of fabrication and low cost. The push for CubeSat designs has forced antenna designers and aerospace engineers to seek solutions for deployable antennas that have to be stowed inside the CubeSat limited space and deploy from its platform once in space. The antennas proposed have to be folded in order to fit inside a CubeSat. 1 U CubeSats are of the dimensions 10 cm x 10 cm x 10 cm. In this paper the antennas presented are designed to deploy from a 6U CubeSat and need to be folded to fit inside a 2U CubeSat.

J. Costantine is with the Electrical and Computer Engineering Department, American University of Beirut, Beirut, Lebanon.

Y. Tawk, is with the Electrical and Computer Engineering Department, Notre Dame University, Lzoube, Lebanon.

C. G. Christodoulou, J. Costantine, and Y. Tawk are also with COSMILAC, The University of New Mexico, Albuquerque, NM 87131, USA.

I. Maqueda, M. Sakovsky, and S. Pellegrino are with the Graduate Aerospace Laboratory, California Institute of Technology, Pasadena, CA 91125, USA.

G. Olson is with Meggitt Polymers and Composites, Mc Mansville, OR 97126, USA.

The challenge of deploying antennas from a CubeSat is amplified by the requirements to design antennas that are operational at UHF frequencies. Lower frequencies impose larger antenna sizes. This fact forces the use of extreme packaging ratios and advanced deployment mechanisms.

Many types of deployable antennas have been used on orbit. Reflector types constitute the widest category [1, 2]. These are commonly based on Truss types to constitute a synthetic aperture radar that can be mounted on any spacecraft as discussed in [3]. Folded structures that resort to hoops or ribs have been proposed for space communications in [4]. Accordion or spring shaped tunable antenna structures can also be used on satellite platforms [5-7]. Tape springs and neutrally stable material have constituted a major contributor to deployable antenna structures designs as discussed in [8].

Despite the advancement in antenna structure design, the most common antennas deployed on CubeSats remain mainly dipoles that are arrayed in various configurations [9]. Helical antennas are also a popular choice of CubeSat antennas due to their natural circular polarization and wide bandwidth [10]. Patch antennas printed on CubeSat sides are good potential candidates for use on small satellites as discussed in [11].

Deployable antennas for CubeSats can also be designed using log periodic structures such as a log periodic crossed dipole antenna array [12]. The log periodic crossed dipole antenna array can be built using a bi-stable composite material. This type of antennas, exhibits a directive beam and an acceptable bandwidth [12]. Another logarithmically scaled antenna can be the conical log spiral antenna that is typically fed at its apex. This antenna satisfies all the imposed constraints of CubeSat communication operation such as circular polarization, large bandwidth and efficient gain. Other configurations of the conical log spiral antenna can also be utilized to satisfy various constraints such as a narrower base or a bigger height. For example, a bottom fed conical log spiral antenna deployed on top of a ground plane is a possible candidate [13].

This paper discusses antennas with an objective to establish an earth-space satellite link that is operational for transmit and receive between 300 MHz and 600 MHz within the UHF band. The antennas presented are proposed to be circularly polarized since circular polarization is required due to Faraday rotation effects in the ionosphere. This paper considers two classical antenna designs for the CubeSat series of satellites, one narrow band antenna and one wideband antenna. The narrow band antenna is a Quadrifilar Helix Antenna (QHA)

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