

Ultra-Broadband Antennas – Type BTA

Ultra-Broadband Antennas

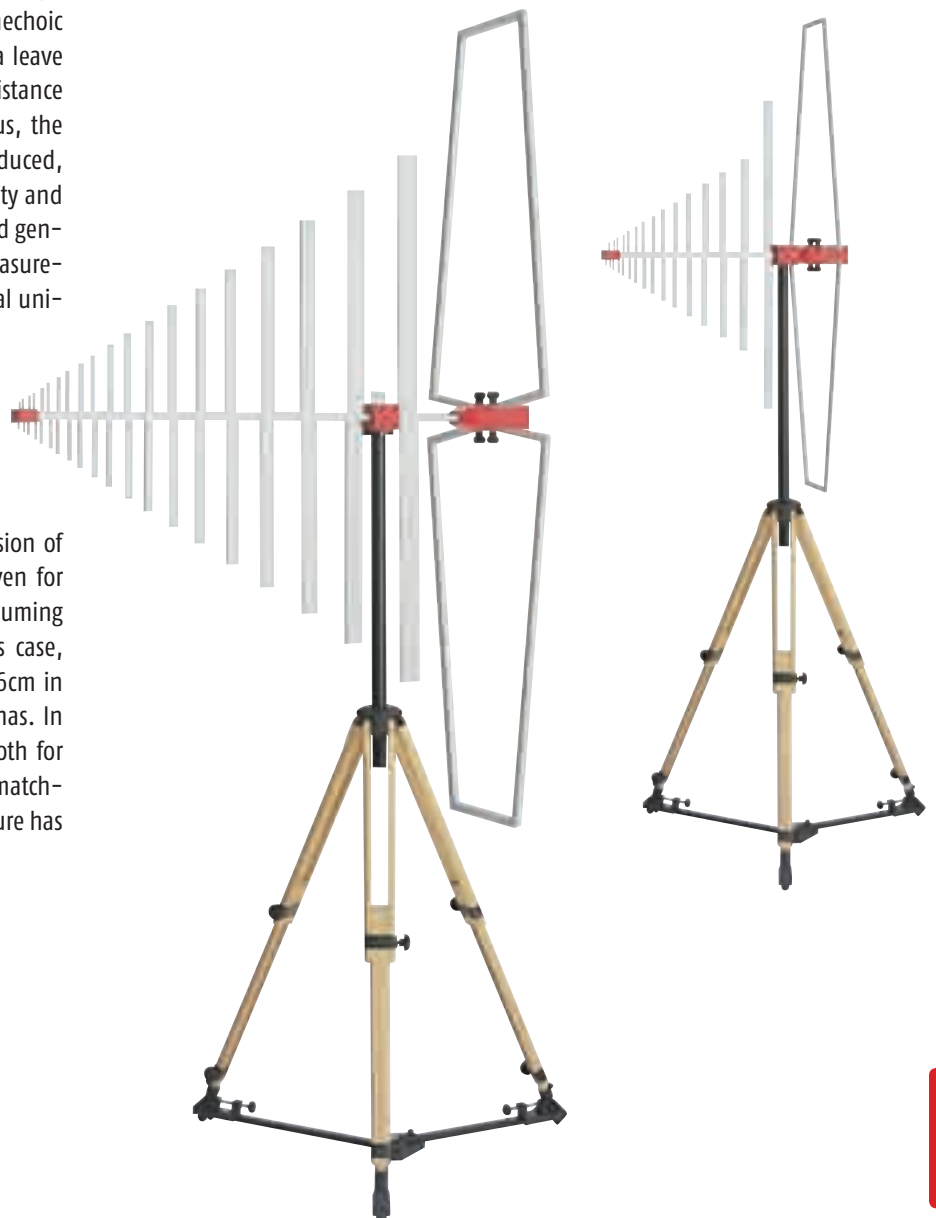
The BTA antennas were developed in cooperation with the antenna specialists of TESTCOM, Prague. By combining their experience gained in decades of antenna construction with our know how in the planning and construction of anechoic chambers, and being acquainted with the interaction between antennas and anechoic chambers, it was possible to develop a group of antennas which exclude the weak points of conventional broadband antennas in almost every respect.

BTA-H Antenna

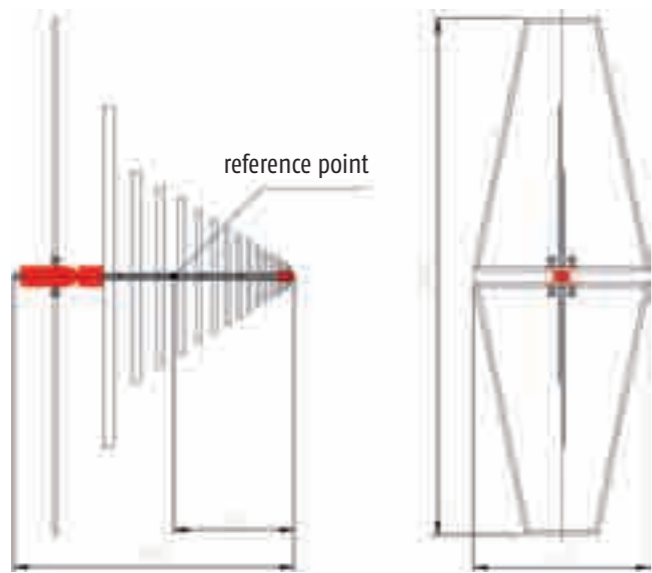
The BTA-H is perhaps the smallest broadband antenna presently available on the market. With only 70cm in length, and a weight of 3.0kg, this antenna is optimally suited for the operation on the antenna mast. An advantage in small anechoic chambers is that the small dimensions of the antenna leave room for an increased testing distance and a larger distance to the absorbers or the conducting surface, resp. Thus, the coupling effects between absorbers and antenna are reduced, which has a positive influence on the field homogeneity and the max. reachable field strength, especially in the field generation. The BTA-H is equally suitable for emission measurements and susceptibility tests, and is therefore the ideal universal antenna for OATS and anechoic chambers.

BTA-M Antenna

The most important aspect of the BTA-M is the extension of the frequency range to higher frequencies so that even for measurements from 30MHz to 3000MHz the time-consuming changing of antennas is no longer necessary. In this case, the antenna has to be somewhat larger, but with 106cm in length it is still much smaller than comparable antennas. In practice, the BTA-M offers considerable advantages both for emission measurements and susceptibility tests. The matching of the broadband dipoles to the log-periodic structure has been optimized for the whole frequency range.

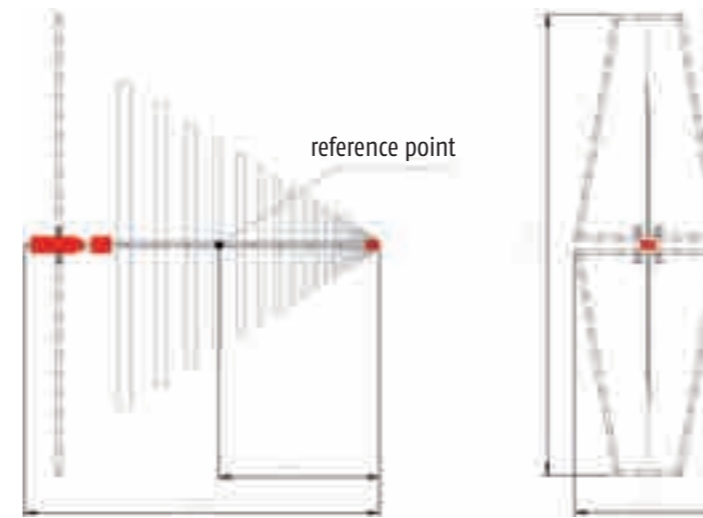


Ultra-Broadband Antenna - Type BTA-H



Technical specifications	
Type	BTA-H
Frequency range:	30MHz to 2000MHz
Dimensions (LxWxH) in mm:	700 x 1,289 x 440
Weight :	3kg
Max. input power :	1000W
Impedance :	50Ω
Connection :	type N female
Use:	Emission measurements Radiated immunity tests

Ultra-Broadband Antenna - Type BTA-M



Technical specifications	
Type	BTA-M
Frequency range:	30MHz – 3000MHz
Dimensions (LxWxH) in mm:	1,063 x 1,379 x 440
Weight :	4.4kg
Max. input power :	1000W
Impedance :	50Ω
Connection :	type N female
Use:	Emission measurements Radiated immunity tests

