

ABSTRACT

LOW-PROFILE BROADBAND MULTIPLE ANTENNA

A low-profile broadband multiple antenna, characterized in that it comprises at least the following elements arranged as indicated hereinbelow:

- a dipole D_1 arranged in the top part of said antenna, said dipole D_1 comprising at least one first top antenna element (D_{1s}) connected to the core (14_0) of a multi-axial cable comprising a core and n sheaths and the bottom individual element (D_{1b}) of which is connected to the first sheath (14_1) adjacent to the core (14_0),
- a connection device (20, 40) positioned between a top element D_{ks} of a dipole D_k and the bottom element D_{kb} of said dipole D_k , the top element D_{ks} is connected to the sheath of index $(k-1)$ of the multi-axial cable after the assembly comprising the core (14_0) and the sheaths of index (1 to $k-1$) has been wound in Q turns (41) around a magnetic core (42) and the bottom element D_{kb} of the dipole D_k is connected to the sheath of index k , and in that said connection device (20, 40) comprises at least one single-wire winding of P turns (43) on the same magnetic core (42) linking said bottom element D_{kb} of said dipole D_k to the sheath of index $(k-1)$, at the point (45) corresponding to the start of the winding (41) in order to provide the broadband impedance matching and the power supply for the dipole D_k .

Figure 9 to be published



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