

METAMATERIAL ANTENNA

ABSTRACT OF THE DISCLOSURE

A metamaterial antenna includes a substrate, a main radiation unit, a split ring resonator, and a compensator. The substrate has a first surface and a second surface, wherein the first surface and the second surface are opposed to each other. The main radiation unit is disposed on the first surface of the substrate for generating at least one resonance frequency band. The split ring resonator is disposed on the first surface of the substrate and located near the main radiation unit. The split ring resonator has a metamaterial structure property for increasing a bandwidth of the at least one resonance frequency band. The compensator is connected with the split ring resonator and includes a main bent part for adjusting impedance match of the main radiation unit.

FIG. 1