

ANTENNA AND COMMUNICATION DEVICE

ABSTRACT

This application relates to the field of communication technologies, and provides an antenna and a communication device, to resolve problems of poor isolation and narrow decoupling bandwidth. The antenna provided in this application may include a first element, a second element, a decoupling stub, a first parasitic structure, and a second parasitic structure. The decoupling stub is connected to the first element and the second element, there is a first gap between the decoupling stub and the first element, there is a second gap between the decoupling stub and the second element, the first parasitic structure is disposed in the first gap, and the second parasitic structure is disposed in the second gap. When the first element and the second element operate, a decoupling current may be generated in the decoupling stub, the first parasitic structure, and the second parasitic structure, and the decoupling current can be cancelled out with an initial coupling current between the first element and the second element, to generate an isolation null. This can effectively improve isolation between the first element and the second element and broadband decoupling performance.

Fig. 2