

ABSTRACT

A radar antenna device for being installed on a lateral surface of a vehicle is provided by the present disclosure. The radar antenna device comprises: a base; a first antenna PCB disposed on the base, and including a first radar transmitting unit; and a second antenna PCB disposed on the base, and including a second radar transmitting unit. The first and second radar transmitting units respectively transmit radar signals including a strong signal region and a weak signal region and a signal border therebetween. The average gain of signal strength of the strong signal regions is greater than 0db, and the average gain of signal strength of the weak signal regions is less than 0db. An intersection is formed by the signal border of the radar signals, and the shortest distance between the intersection and the second surface is between 30mm to 80mm.

Fig. 3B