



The Chinese University of Hong Kong
Non-confidential Abstract of Technology Disclosure

Title:

Integrated LTCC mm-wave Planar Array Antenna with Low Loss Feeding Network

CUHK Ref. No.:

05/ENG/200

Inventor(s):

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Non-confidential abstract:

A novel configuration of mm-wave planar array antenna based on multilayer laminated technology is proposed. The configuration exploits the 3D integration feature of multilayer technologies by incorporating a mixed feeding network configuration. Namely, the main trunk of the feeding network is laid by integrated laminated waveguide and the end sections of the feeding network that connect the antenna elements to the network are constructed by microstrip lines or strip lines. The laminated waveguide and the strip lines are connected through a transition. Such a mixed feeding network can significantly reduce the loss occurred down the feeding network.

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