

Dual Band Antenna for 5G Communication Systems

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OST/GPT Company Overview

OST/GPT 概况

Wuxi DSP Acquires Sandbridge Design Team/Licensed SB3500

无锡DSP收购Sandbridge设计团队/许可SB3500

Multithreaded DSP Core Microarchitecture and Chip Design

多线程DSP核心微架构和芯片设计

Optimum Semiconductor Technologies, Inc. (OST)

The Wuxi DSP wholly owned US Company

无锡DSP全资美国子公司

General Processor Technologies (GPT)

IP Licensing Company 知识产权（IP）许可公司

A name owned by Optimum Semi OST持有的名称

Processors, IP cores and accelerators 处理器，IP核和加速器

World-wide 世界范围

Value Proposition 价值定位

Software reuse 软件重利用

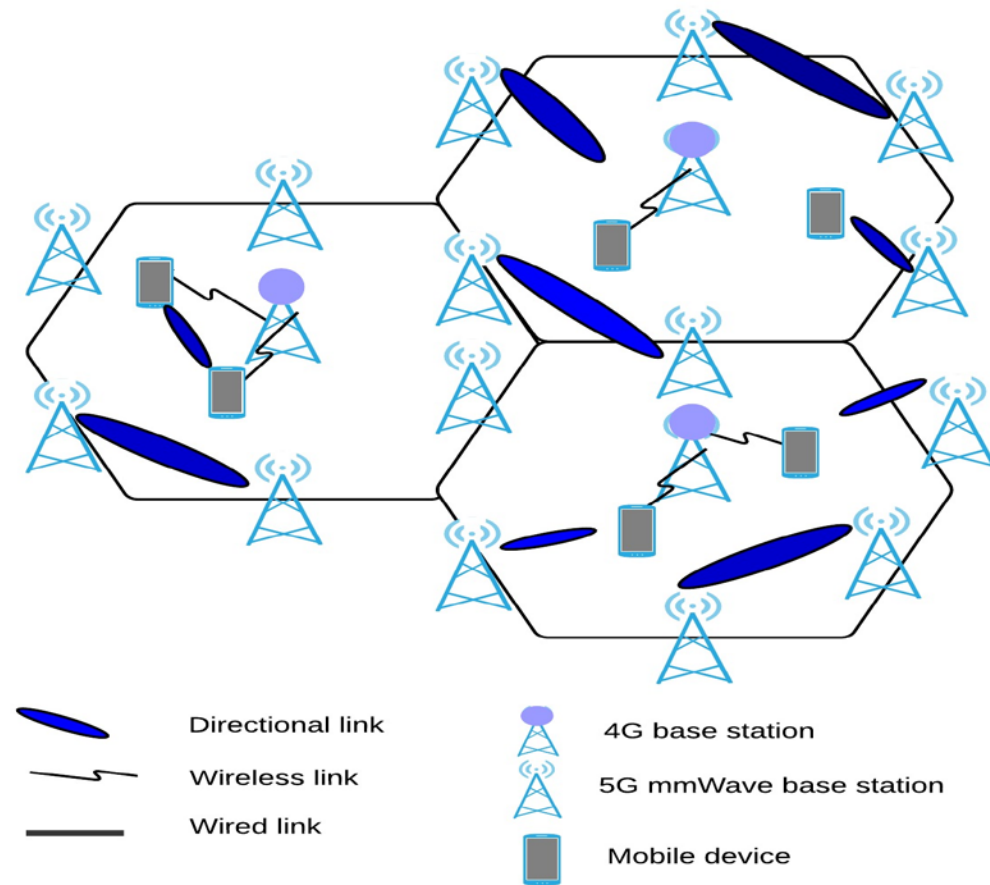
Easy integration in large SoC's 易于集成在大型系统芯片中

Scalable low power multithreaded technology 可扩展的低功耗多线程技术

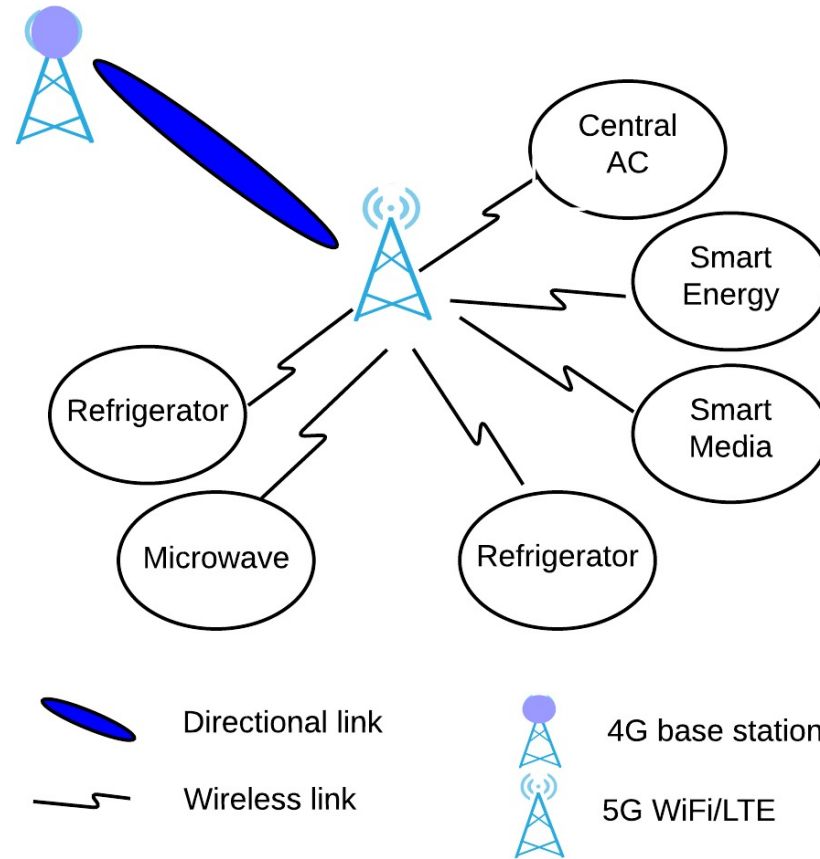
Supporting mobile devices through basestations 通过基站支持移动设备



5G Application: 4G-5G networking



5G Application: Network of Things



5G Through Massive MIMO Technology

1. It is an extension to existing wireless systems :

- 3G
- 4G
 - LTE
 - WiFi

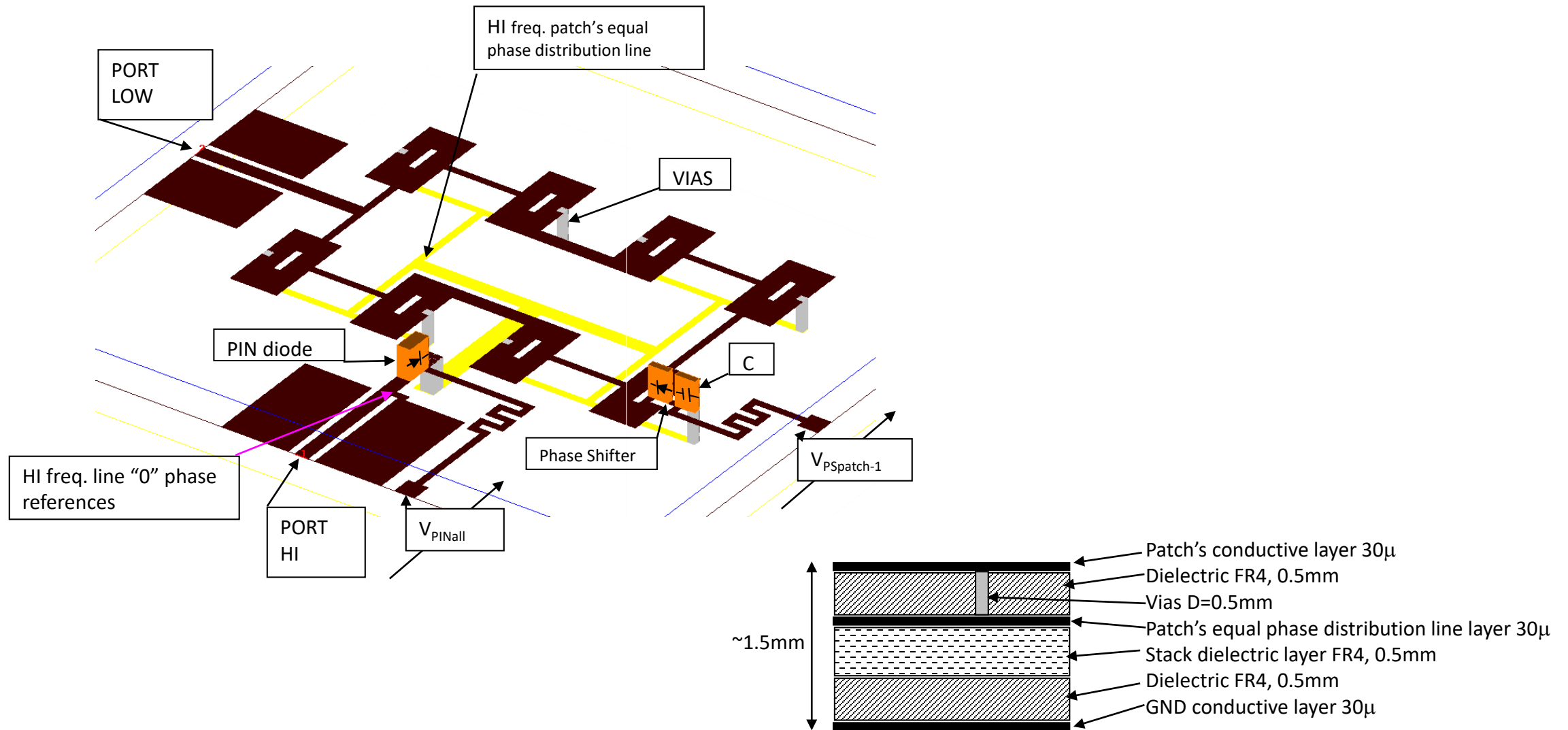
2. UDN (ultra dense networks) to increase spectral usage and network capacity

3. Internet of things

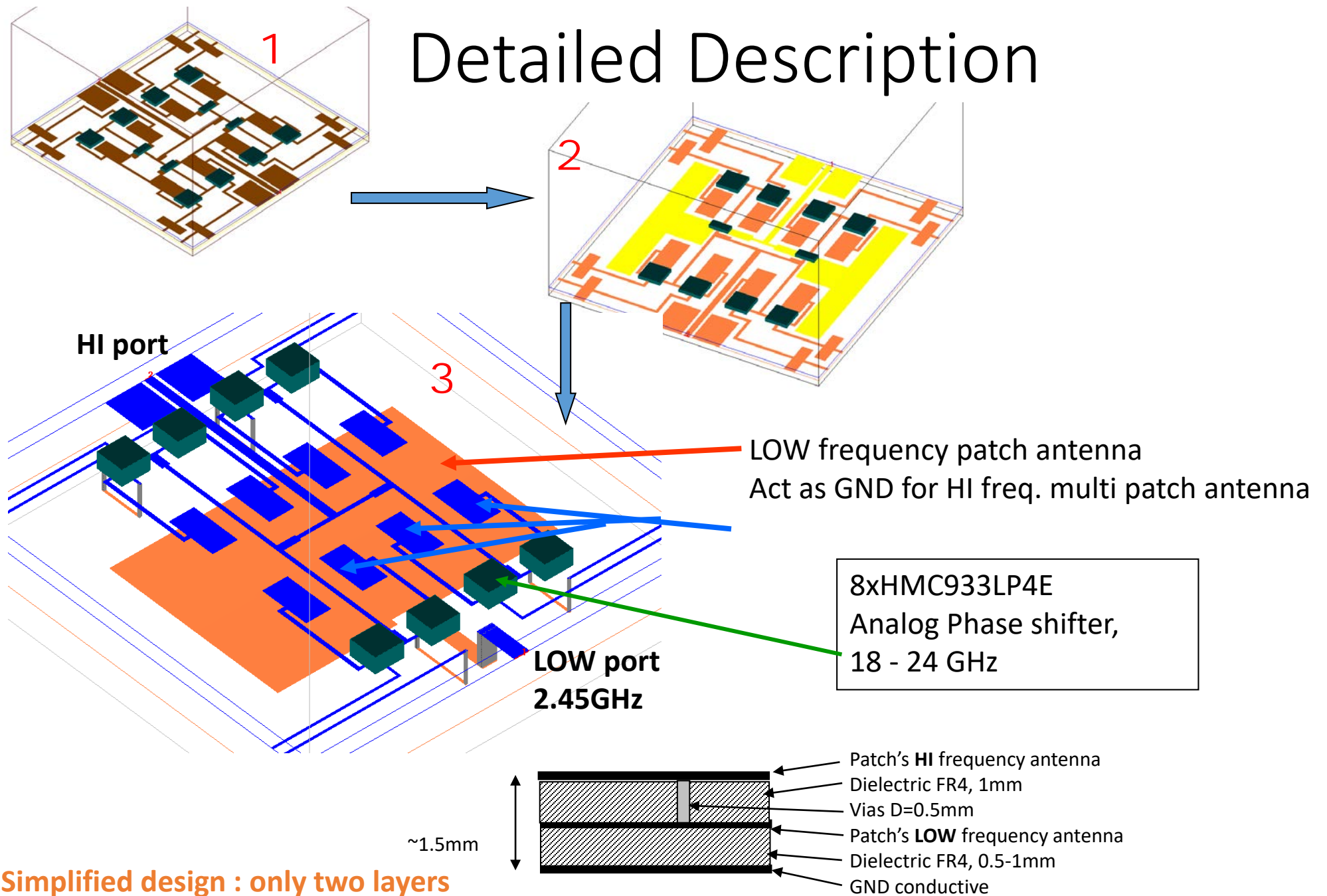
Applied to almost any field as :

- Industrial
- Automotive
- Robotics
- Bio-medical
- Environmental sensing, etc

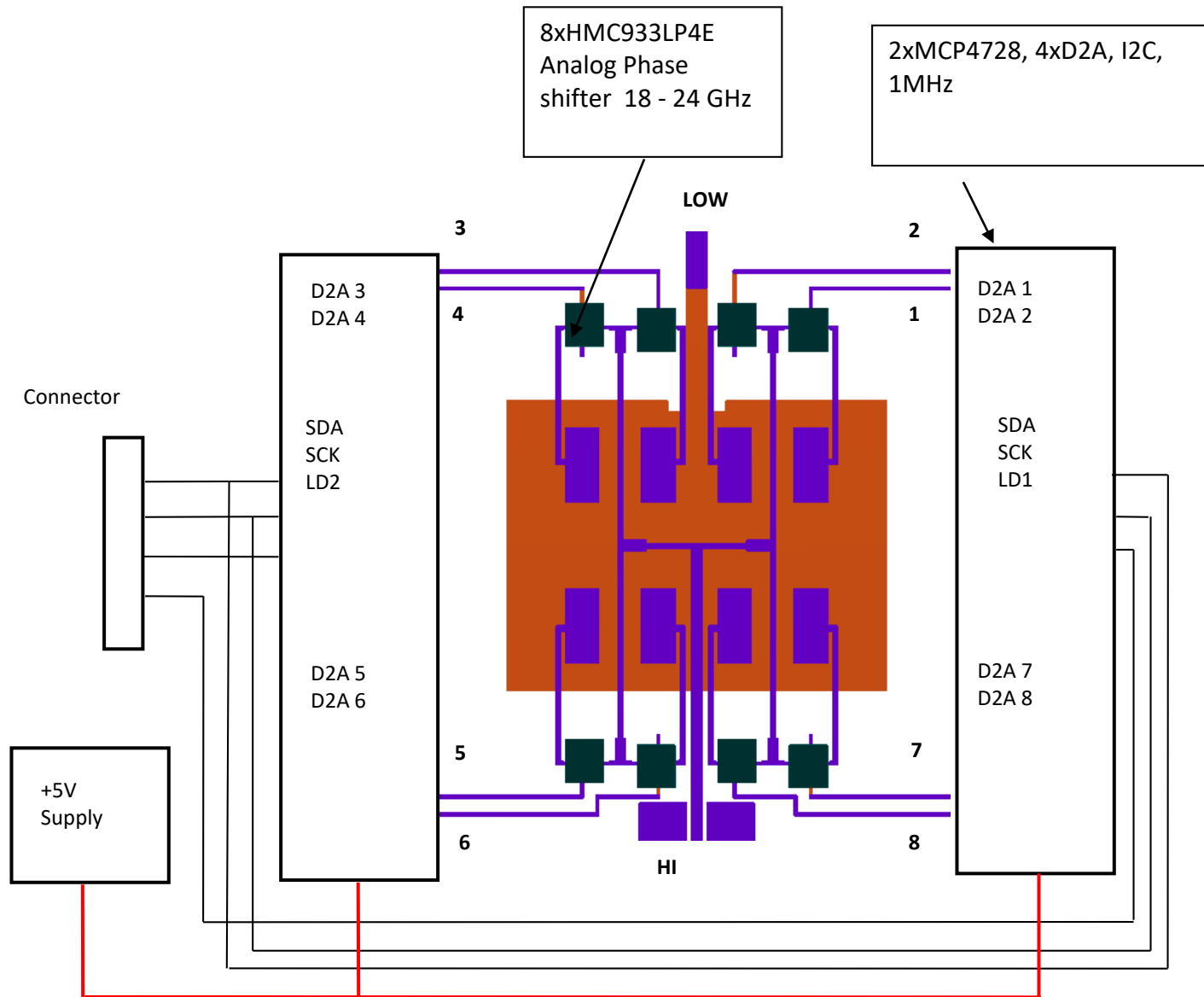
Multi band patch antenna for 5G Millimeter wireless massive MIMO



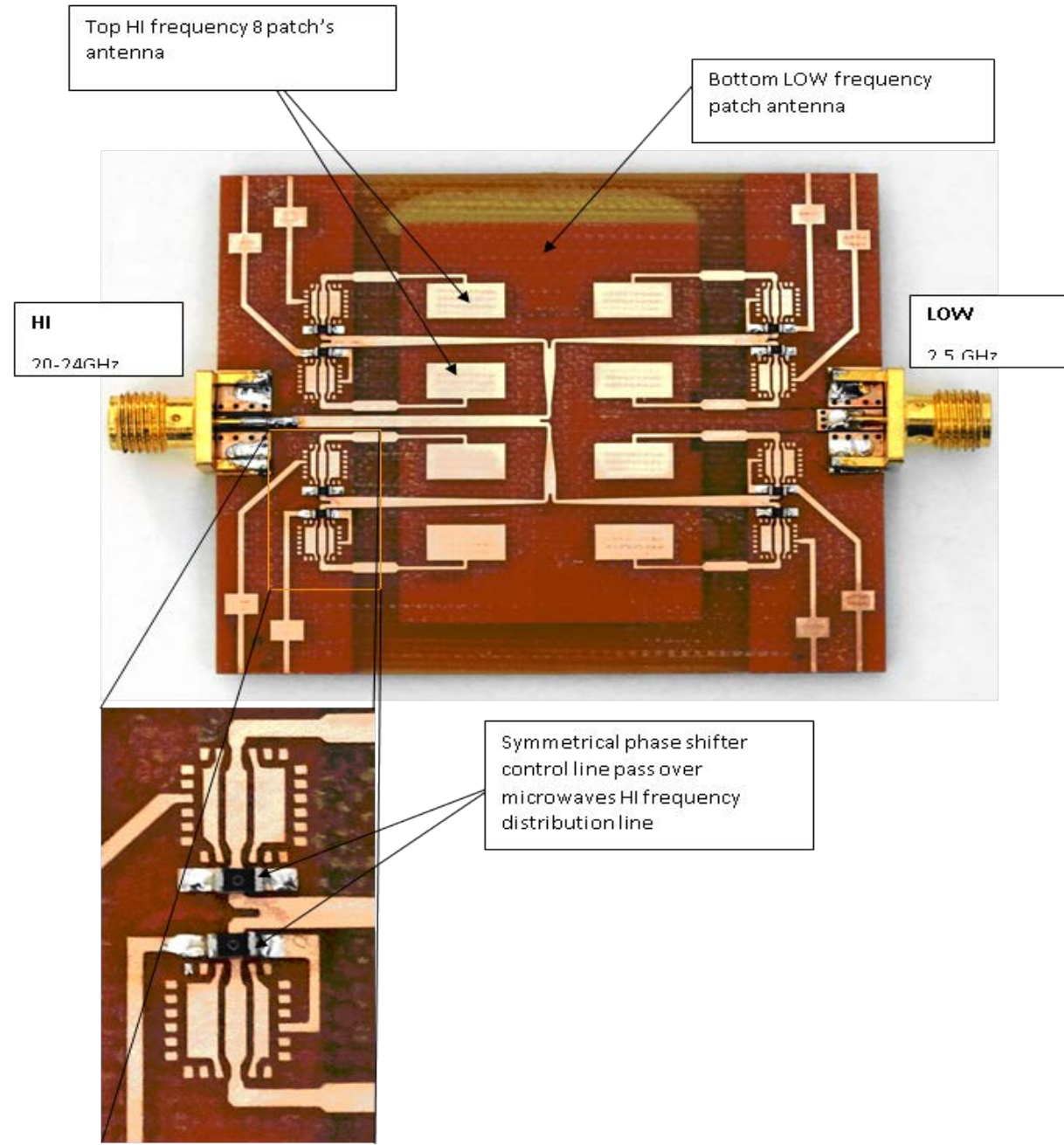
Detailed Description



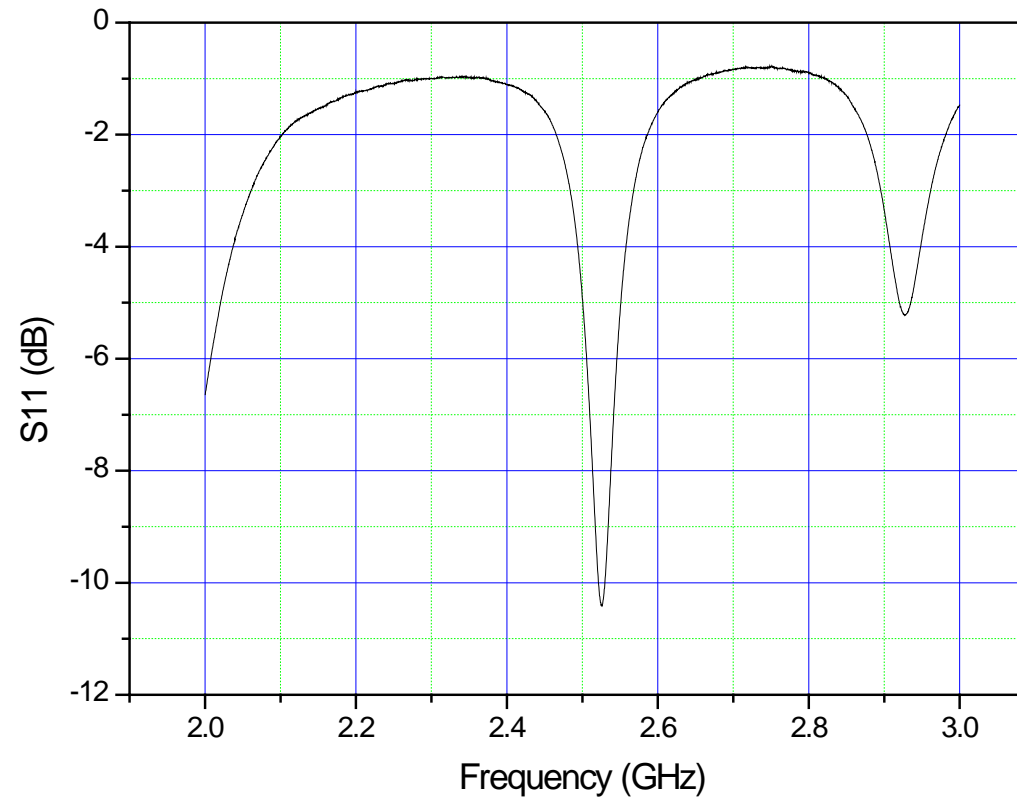
Measurement block diagram



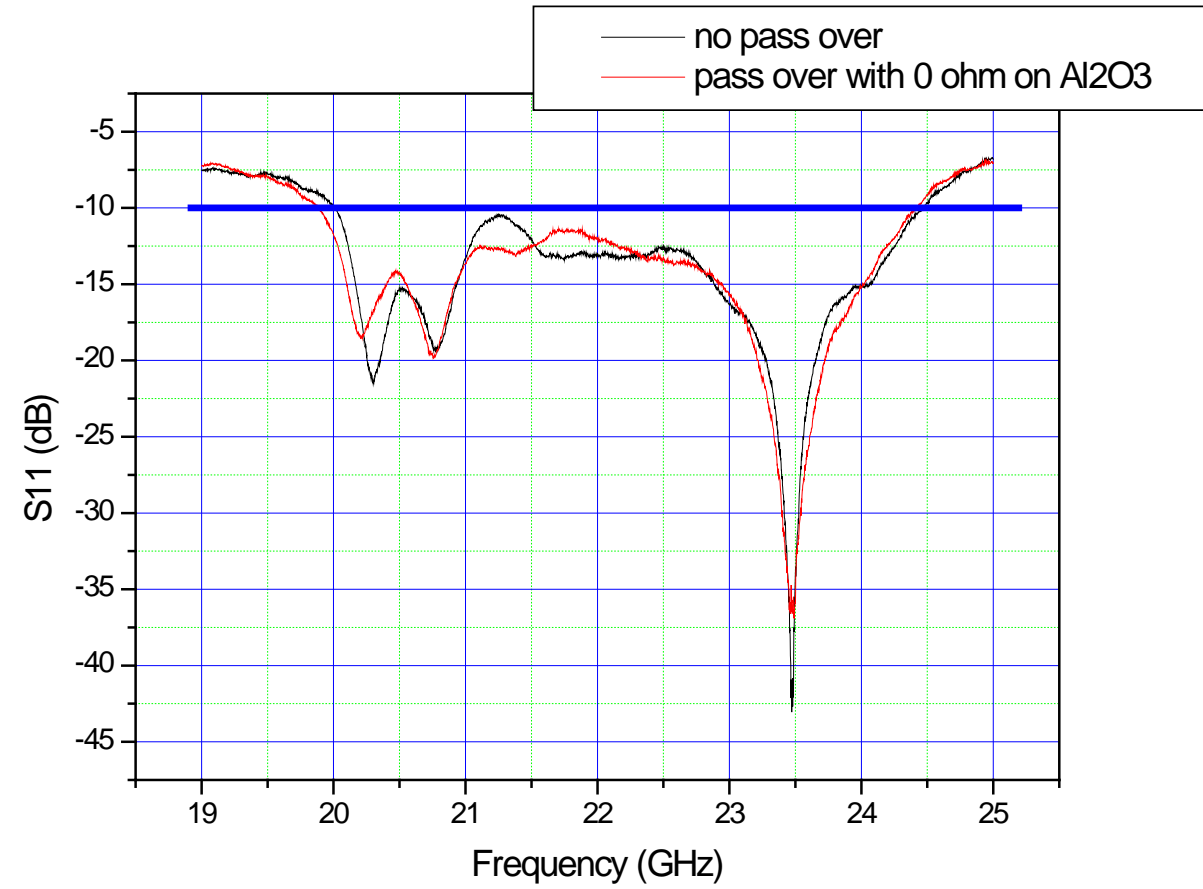
First Iteration



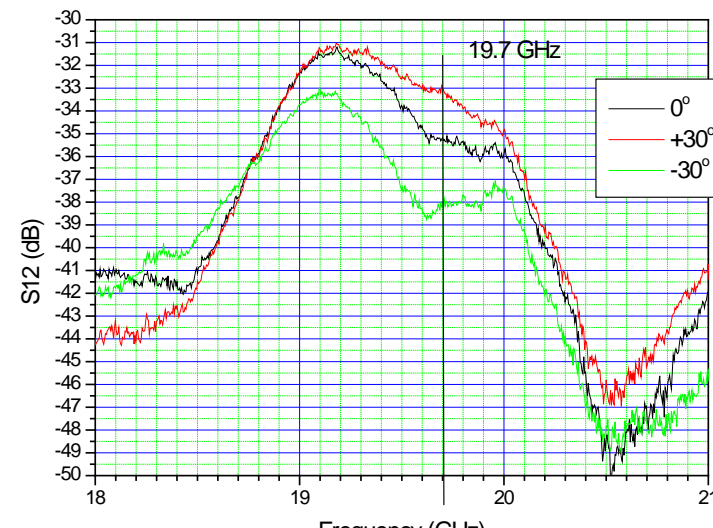
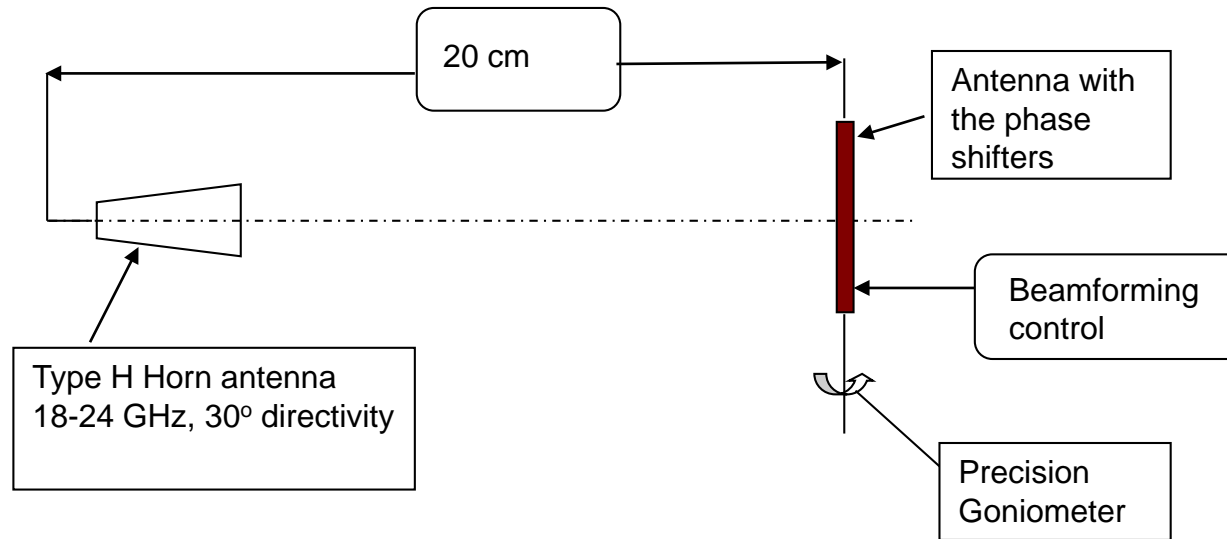
Performance



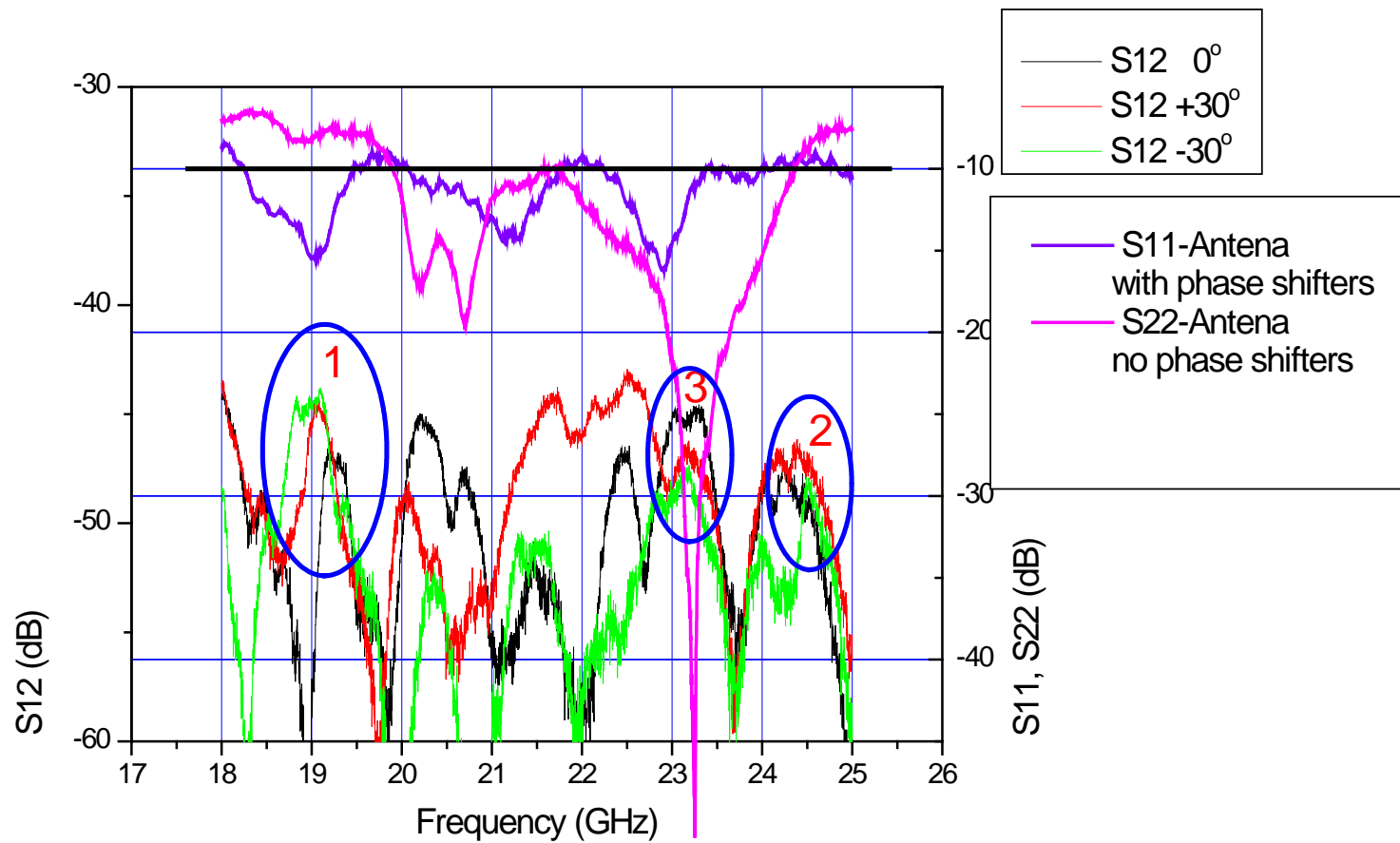
Performance



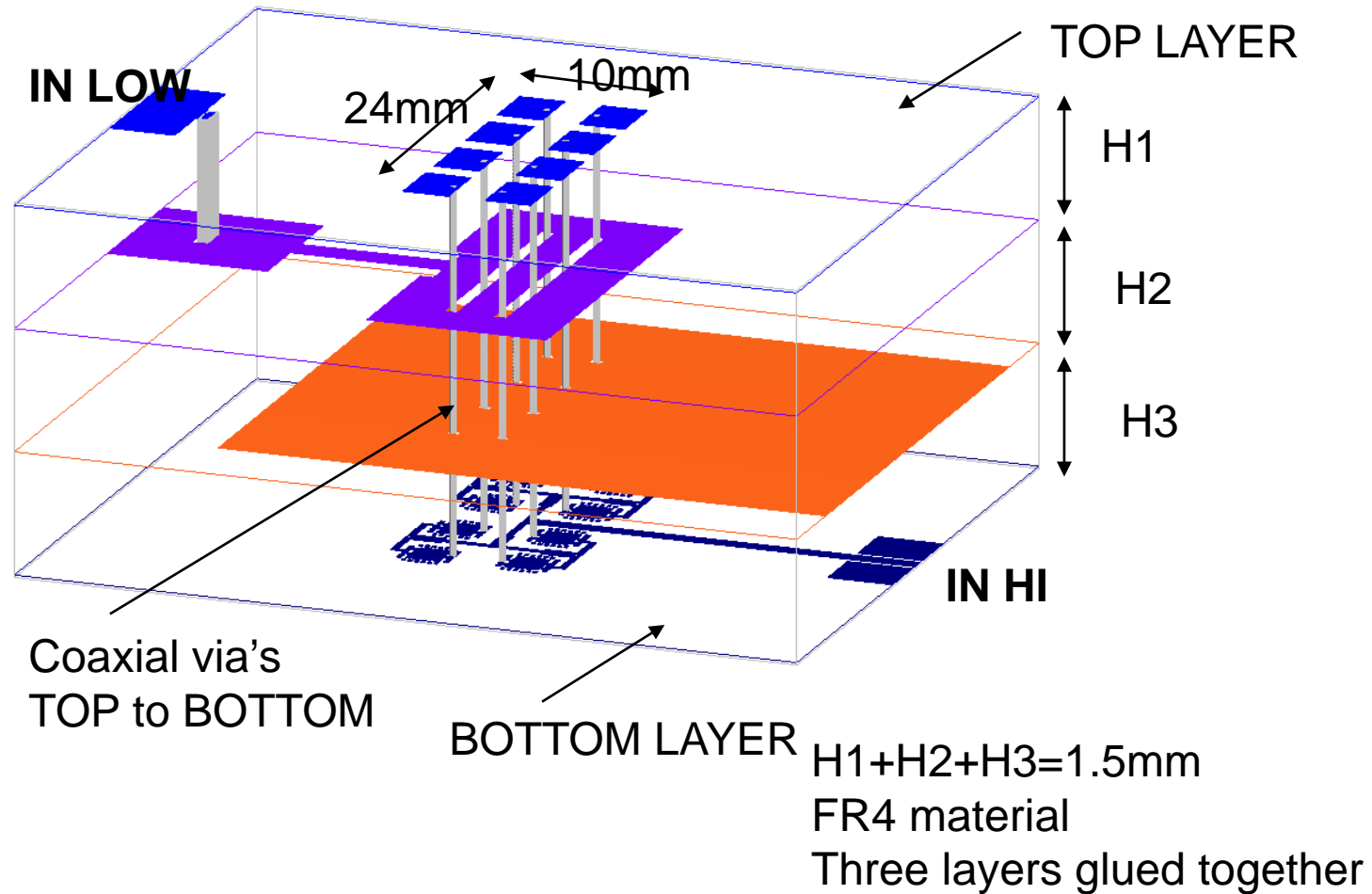
Experimental setup



High frequency band results



Miniaturized Structure



Thank You

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