

5G Antenna Requirements

- Operating frequencies {50-70} GHz and {5-6} GHz for 5G and 5G+, respectively
- Useable BW will be 500MHz to 1GHz
- Wide BW, i.e. constant radiation pattern and input impedance over wideband
- $RL \leq -10\text{dB}$
- Symmetric radiation pattern both in E and H plane
- Integrable into PCB
- Integrable into Antenna Array
- Integrable into Power Combiner
- Small form factor for Mobile devices
- Moderate Gain, {5-10} dBi
- Impedance tunable
- Aperture tunable