

## 4.6 Multi-band patch antennas

### Matlab program

Program ([patchant.m](#)) calculates the approximate size of metallic patch and position of coaxial probe for planar antenna. The input parameters are the frequency  $f$  [GHz], thickness of the dielectric slab  $h$  [mm], relative permittivity  $\epsilon_{ps}$  [-] and input impedance  $R_i$  [Ohm].