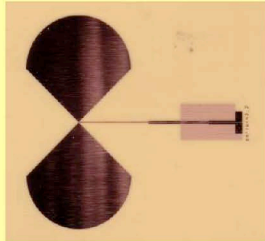


Miniaturization and Integration

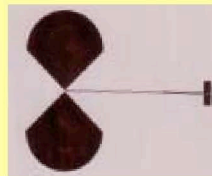


(IMS2004)



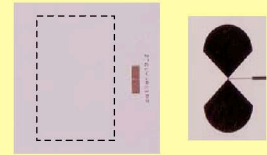
size1(one side)
6 cm × 4 cm 0.2 mm thick
($\epsilon_r = 3.6$)

Higher relative permittivity

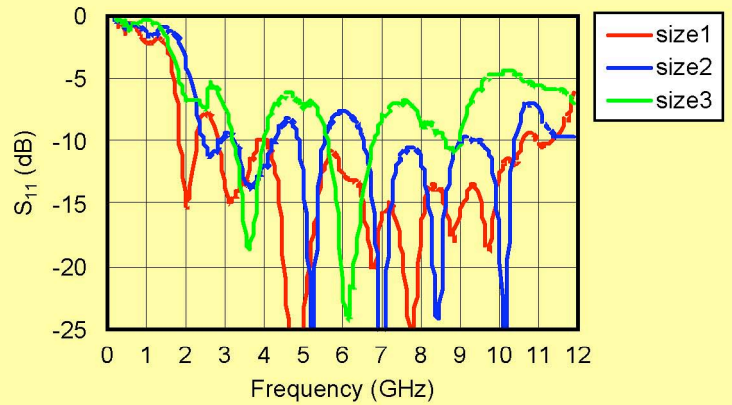
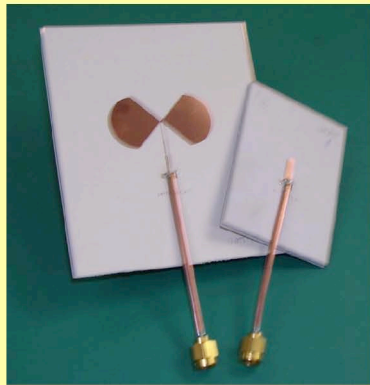


size2(one side)
4 cm × 2 cm 0.2 mm thick
($\epsilon_r = 10.2$)

Thicker Substrate



size3(both sides)
2 cm × 1 cm 2 mm thick
($\epsilon_r = 10.2$)



integration

4 Coupled-line Differential-Mode Ultra-Wideband BPF

(IMS2005)

