

CIRCULAR MICROSTRIP PATCH ANTENNA

DESIGN PARAMETERS

Resonating Frequency: 28 GHz

Material of the ground plane: copper

Length of the ground plane(L_g): 5mm

Width of the ground plane(W): 4mm

Height of the ground plane(H_p): 0.035mm

Material of the substrate: Rogers RT/duroid 5880

Length of the patch: L_g

Width of the patch: W

Height of the substrate(H_s): 1.575mm

Material of the patch: copper

Random value(a): 0.3mm

Radius of the patch(R_p): 1.6mm

Height of the patch: H_p

Material of the feedline: copper

Length of the feedline(L_f): 1.65mm

Width of the feedline(W_f): 0.75mm

Height of the feedline: H_p

Type of port: Terminal Lumped Port

Width of the port: W_f

Height of the port: $-(H_p+H_s)$