



Electromagnetic wave passing through 1 m<sup>2</sup>. If the power passing through the area is 1 W, the wave has a power density of 1 W/m<sup>2</sup>

### Far Field Region Power Density

Power Density  $P_d = \frac{E^2}{Z} \quad \text{W/m}^2$

where:

$E$  = Electric Field in V/m

$Z$  = Wave Impedance = 377 Ohms.