a) Power consumption

Psingle = 20 W

Pmulti = Psingle x 4x $\left(\frac{0.9}{1.3}\right)^2 \times \left(\frac{6.96 \text{Hz}}{1.36 \text{Hz}}\right)$

 $= \lambda 20 \times 4 \times \left(\frac{0.9}{1.3}\right)^2 \times \left(\frac{0.9}{1.3}\right)$

1 -6.636 watts