Convertire in W i seguenti valori logaritmici di potenza:

- -70dBm
- -27dBm
 - -3dBm
 - +6dBm
- +24dBm

$$-70dBm =$$
 $= 0dBm + (-10dB) + (-10dB) + (-10dB) +$
 $+(-10dB) + (-10dB) + (-10dB) + (-10dB)$

Ricordiamo che:

$$0dBm = 1mW$$

 $-10dB = 10^{-1}$

Quindi:

$$-70$$
dBm = 1mW × 10^{-7} = 10^{-10} W = 0.1 nW

$$-27dBm = -30dBm + 3dB =$$

$$= 10^{-3} \text{ mW} \times 2 = 2 \times 10^{-6} \text{ W} = 2 \mu\text{W}$$

$$-27dBm = -20dBm + (-7dB) =$$

$$= 10^{-2} \text{ mW} \times \frac{1}{5} = 2 \times 10^{-6} \text{ W} = 2 \mu\text{W}$$

$$-3dBm = 0dBm + (-3dB) =$$

$$= 1 \text{ mW} \times \frac{1}{2} = 0.5 \times 10^{-3} \text{ W} = 500 \text{ }\mu\text{W}$$

$$+6dBm = 0dBm + 3dB + 3dB =$$

$$= 1 \text{ mW} \times 2 \times 2 = 4 \times 10^{-3} \text{ W} = 4 \text{ mW}$$

$$+24dBm = 30dBm + (-3dB) + (-3dB) =$$

= $10^3 \text{ mW} \times \frac{1}{2} \times \frac{1}{2} = 0.25 \text{ W}$