

TPO Calculations for K210BY

System Losses:

1. Transmission line – (Andrew LDF4-50A 23 meters) .5 dB
2. Bandpass Cavity (Telewave TBPC 1008-1) 1 dB
3. SuperFlex 2 -(Andrew FSJ4-50B) .2dB
4. Polyphaser .1dB
5. Low Pass Isolator (Telewave T1030) .3dB

Total System losses: 2.25 dB

Antenna Gain (Scala GPFM): 0

Net Loss: $2.1 - 0 = 2.1$ dB

ERP = 10 Watts

Convert to dBm

$10\log(10/.001) = 40$ dBm

TPO

$40 \text{ dBm} + 2.1 = 42.1$ dBm

Convert to Watts

$10^{(42.1/10)} \cdot .001 = 16$ watts