

TPO Calculation WPKA-LP (ERP of 67 watts)

TRANSMISSION EFFICIENCY

ANTENNA GAIN: .95

LOSS PER CONNECTOR: .49DB x 10 = 4.90

LOSS IN POWER DIVIDER: .62DB

LINE LOSS: 1.2

POLYPHASER: .2

TOTAL DB LOSS 6.92db

THE FOLLOWING CALCULATION WAS USED IN DETERMINING TOTAL TPO

(4.96DB/10 = .692)

(INVERSE LOG OF .692 = 4.92)

ERP = 67 WATTS / (ANTENNA GAIN (.95) = 63.65 WATTS * 4.92) = 313.16 WATTS

TPO ROUNDED OFF TO 313 WATTS