

KOPB-DT, Channel 27 Portland, OR

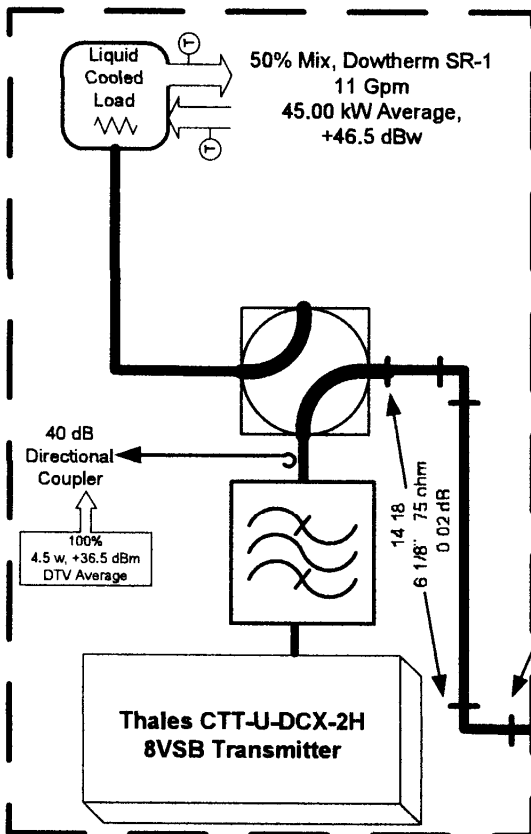
Constants Used in Calculations:
6 1/8" - 75 ohm = 0.1145 dB/100'

753 kW (28.8 dBk) = 45.0 kW TPO
602.4 kW (17.8 dBk) = 36.0 kW TPO (80%)
376.5 kW (15.8 dBk) = 22.50 kW TPO (50%)

Dielectric
TFU-24GBH-R06
13.32 dBd RMS Peak
12.30 dBd @ Horizontal
21.5 X Max Power Gain
17.0 X @ Horizontal
0.75 deg Beam Tilt

753 kW DTV Average
28.8 dBk

DTV Channel 27
548 - 554 MHz



Total Line Length
926.7', 282.5 meters

Total Transmission Line Loss
-1.06 dB, 78.3 %



Oregon Public Broadcasting

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KOPB-DT, Channel 27
RF Gain Budget
June, 2006