

KEPB-DT, Channel 29

Eugene, OR

560-566 MHz

100 kW ERP
20.0 dBk
4.0 kW TPO

Andrew (ERI)
ATW16H8-HSC3L-28H
Dual Channel UHF Antenna
1.5 deg Beamtilt
15.05 dB Peak, 12.06 dB Horiz
Peak Power Gain 32.00, 16.09 Horiz

208m RCAGL
(683')

To KVAL,
Channel 13
Antenna

Dielectric 6 1/8" Rigid Transmission Line
676.14' @ 0.124 dB/ 100'
-0.8384 dB

UHF/ VHF Splitter
-0.1222 dB

UHF/ VHF Combiner
-0.0692 dB

Total Transmission Line, Combiner/ Splitter Losses
1.0912 dB
77.8% Efficiency

4.016 kW
DTV Ave

21.23' vaious 3 1/8"
Line, 4" Rigid,
Elbows, etc.
-0.0614 dB

From KVAL,
Channel 13
Transmitter

Thales
4kW DTV
Transmitter



Oregon Public Broadcasting

RF Systems Engineering
(503) 977-7752
ehelm

1-27-05

KEPB-DT, Channel 29
RF Gain Budget
KEPB_DT_Pwr.vsd