

Broadcast Antenna System

Power Analysis

KOOD-DT Channel 16
Hays, KS
Type: ATW26H3-HSTX-16H

ANTENNA PARAMETERS:

Azimuth Directivity:
Hor Pol: 1.40 (1.46 dBd)

Elevation Directivity:
Hor Pol: 26.00 (14.15 dBd)

TRANSMISSION LINE:

VERTICAL RUN:

Type: 5" 50 Ohm HJ9-50 HELIAX®

Length: 960 ft.

Attenuation: 0.1870 dB/100 ft.

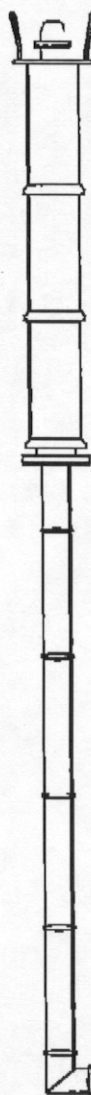
HORIZONTAL RUN:

Type: 5" 50 Ohm HJ9-50 HELIAX®

Length: 80 ft.

Attenuation: 0.1870 dB/100 ft.

Efficiency: 63.90%



ERP:

kW: 496.0

dBk: 26.95

POWER GAIN:

Ratio: 36.40

dBd: 15.61

ANTENNA INPUT:

kW: 13.63

dBk: 11.34

LINE LOSS:

kW: 7.70

dB: 1.945

TRANSMITTER POWER:

kW: 21.32

dBk: 13.29



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