

CUSTOM ELECTRICAL DATA

ELECTRICAL CHARACTERISTICS:

<i>CHANNEL:</i>	<i>FM</i>
<i>FREQUENCY RANGE:</i>	<i>97.3</i>
<i>AZIMUTH PATTERN NUMBER:</i>	<i>Hor Pol: NON-DIRECTIONAL</i>
<i>ELEVATION PATTERN NUMBER:</i>	<i>Hor Pol: CUSTOMER DEFINED</i>
<i>AZIMUTH DIRECTIVITY:</i>	<i>Hor Pol: 1.00 (0.00 dB)</i>
<i>ELEVATION DIRECTIVITY:</i>	<i>Hor Pol: 6.59 (8.19 dBd)</i>
<i>PEAK POWER GAIN:</i>	<i>Hor Pol: 6.59 (8.19 dBd)</i>
<i>ELECTRICAL BEAM TILT:</i>	<i>CUSTOMER DEFINED</i>
<i>INPUT POWER REQUIRED:</i>	<i>15.168 kW Peak Visual plus 8% Aural</i>
<i>INPUT TYPE:</i>	<i>CONTACT ANDREW</i>



ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A 60462

FM prelim calc -1-

Broadcast Antenna System

Power Analysis

Type: CUSTOM

Transmission Line:

Type:

Custom

Double-click to edit custom line.

Vert. Length: 800 ft.

Horz. Length: 0 ft.

Attenuation:

0.150 dB/100 ft.

Efficiency: 75.86 %



ERP: Hor Pol:

kW: 100.00

dBk: 20.00

Power Gain:

Ratio: 6.59

dBd: 8.19

Antenna Input:

kW: 15.17

dBk: 11.81

Line Loss:

kW: 4.83

dB: 1.20

Transmitter Power

kW: 20.00

dBk: 13.01



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FM prelim calc -2-