



Antenna Model: **DLP-8B**

Reference Number: **231201WTG1**
Date: **1-Dec-23**
Customer: **Nexstar Media Inc.**
Location: **Wichita Falls, TEXAS**

Electrical Specifications

Polarization: **Horizontal**
Azimuth Pattern: **B**
Antenna Input: **1-5/8" 50 Ohm**
VSWR: Channel **1.10 : 1**
Bandwidth: **6 MHz**
Rated Input Power: **2.5 kW (3.98 dBk) Maximum Average Power**

Mechanical Specifications

Mounting: **Side Mounted**
Environmental Protection: **Slot Cover Only**
Height: **15.4 ft (4.7 m)**
Weight: **73 lb (34 kg)** Excludes Mounts
Effective Projected Area: **10 ft² (0.9 m²)** Basic Wind Speed: **mph (0 km/h)**

Channel Specifications

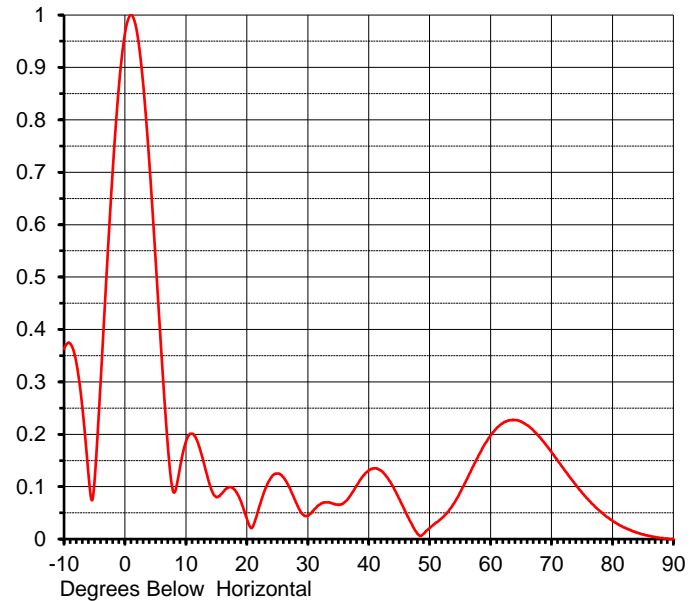
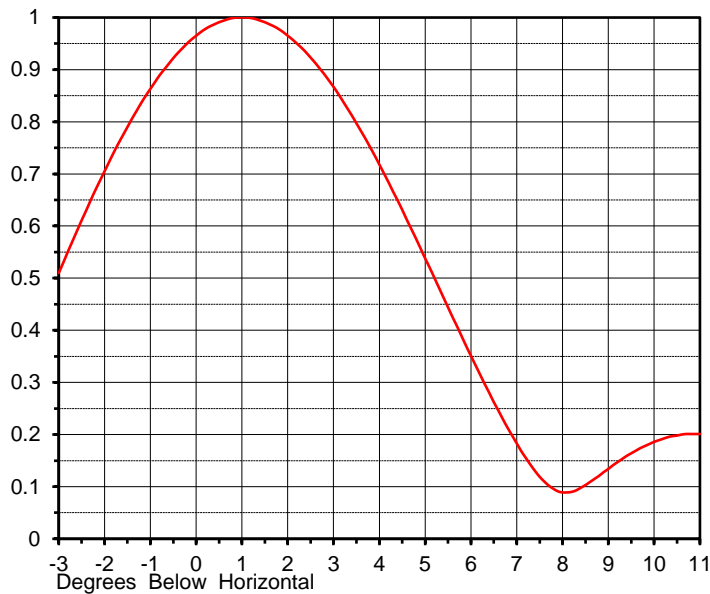
Call	Ch	Freq	Hpol ERP	TPO	Peak Gain Main Lobe Hpol	Peak Gain at Horizontal Hpol
KJBO-LD	35	599	9.97 kW (9.99 dBk)	1.04 kW (0.17 dBk)	14.26 (11.54dB)	13.28 (11.23dB)

ELEVATION PATTERN

Proposal No. **231201WTG1**
 Date **1-Dec-23**
 Call Letters **KJBO-LD**
 Channel **35**
 Frequency **599 MHz**
 Antenna Type **DLP-8B**

RMS Directivity at Main Lobe **8.1 (9.10 dB)**
 RMS Directivity at Horizontal **7.6 (8.81 dB)**
Calculated

Beam Tilt **1.00 deg**
 Pattern Number **08L081100-35**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.363	10.0	0.186	30.0	0.045	50.0	0.021	70.0	0.166
-9.0	0.373	11.0	0.201	31.0	0.056	51.0	0.031	71.0	0.150
-8.0	0.338	12.0	0.183	32.0	0.066	52.0	0.040	72.0	0.134
-7.0	0.252	13.0	0.143	33.0	0.070	53.0	0.052	73.0	0.118
-6.0	0.125	14.0	0.101	34.0	0.068	54.0	0.068	74.0	0.103
-5.0	0.110	15.0	0.080	35.0	0.065	55.0	0.089	75.0	0.089
-4.0	0.299	16.0	0.088	36.0	0.070	56.0	0.112	76.0	0.076
-3.0	0.510	17.0	0.099	37.0	0.083	57.0	0.136	77.0	0.064
-2.0	0.705	18.0	0.094	38.0	0.102	58.0	0.159	78.0	0.053
-1.0	0.863	19.0	0.073	39.0	0.119	59.0	0.180	79.0	0.043
0.0	0.965	20.0	0.039	40.0	0.131	60.0	0.198	80.0	0.035
1.0	1.000	21.0	0.024	41.0	0.135	61.0	0.212	81.0	0.028
2.0	0.965	22.0	0.060	42.0	0.131	62.0	0.221	82.0	0.022
3.0	0.867	23.0	0.095	43.0	0.118	63.0	0.226	83.0	0.017
4.0	0.718	24.0	0.118	44.0	0.100	64.0	0.227	84.0	0.012
5.0	0.538	25.0	0.125	45.0	0.077	65.0	0.224	85.0	0.009
6.0	0.351	26.0	0.118	46.0	0.053	66.0	0.217	86.0	0.006
7.0	0.183	27.0	0.098	47.0	0.030	67.0	0.208	87.0	0.004
8.0	0.089	28.0	0.072	48.0	0.010	68.0	0.195	88.0	0.002
9.0	0.134	29.0	0.049	49.0	0.010	69.0	0.181	89.0	0.001
								90.0	0.000

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Summary

Proposal No.	231201WTG1
Date	1-Dec-23
Call Letters	KJBO-LD
Channel	35
Frequency	599 MHz
Antenna Type	DLP-8B

Antenna

		Hpol
ERP:	9.97 kW	(9.99 dBk)
Peak Gain	14.26	(11.54 dBd)

Antenna Input Power	0.699 kW	-(1.56 dBk)
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Transmission Line

Type:	Flexline Air	Attenuation:	(1.73 dB)
Size:	3"	Efficiency:	67.2%
Impedance:	50 Ohm		
Length:	425 ft	129.5 m	

Transmitter Output

	1.04 kW	(0.17 dBk)
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Transmitter filter losses not included

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