



SYSTEMS WITH RELIABILITY, Inc.
Broadcast Antenna & Transmission Systems

SYSTEM DATA SHEET

Customer	Bible Broadcasting Network
Contact	Mike Raley
Location	WYFZ, Bellview, FL
Antenna Model	FM3/1 DA
Channel / Frequency	91.3 MHz

ELECTRICAL SPECIFICATION

Polarization Type	Circular	
Polarization Ratio		
H-Pol. (PRH)	54.4722	%
V-Pol. (PRV)	45.5278	%
Elevation Directivity (ED)	0.883	
Azimuth Directivity (AD) H-Pol.	3.242	
Azimuth Directivity (AD) V-Pol.	3.879	
Antenna Gain (GH)		
H-Pol. (GH)	1.559	
V-Pol. (GV)	1.559	
dB Gain (AG)		
H-Pol (AGH)	1.930	
V-Pol (AGV)	1.930	
ERP		
H-Pol. (ERPH)	0.900	kW
V-Pol. (ERPV)	0.900	kW
Line Type	7/8" Foam	LDF5-50A
Attenuation per 100 ft.	0.347	dB/100ft
Line Length (LL)	360.00	ft.
Total Line Attenuation	1.25	dB
Line Efficiency (LE)	75.00	%
Line Loss (LPL)	0.19	kW
Antenna Input Power (AIP)	0.58	kW
Req'd. Transmitter Output Power	0.77	kW

MECHANICAL SPECIFICATION

Height Above Ground Level (AGL)	334.56	ft.	102	m
Antenna Weight	33.00	lbs.	15.00	kg
Windload (50/33)	54.00	lbs.	24.55	kg

Prepared by:

Jagannath G. Shanbhag
 Electrical Engineer
 Department of Engineering
 SWR, Inc