

Townsquare Tuscaloosa TPO Calcs

Station Call Sign
Frequency (MHz)

ERP (W)

Antenna Model
Antenna gain elevation
Antenna azimuth gain
Antenna Gain, peak of beam (multiplier)

Antenna input power (W)

Vertical Line Run
Line Length (feet)
Line loss per hundred feet (dB/100')
Line loss total (dB)

Horizontal Line Run
Line Length (feet)
Line loss per hundred feet (dB/100')
Line loss total (dB)

Total Line Loss (dB)

Power Into Base of Vertical Line Run (W)

Filter Insertion Loss (dB) (factory)

Power Input to Filter (W)

TX to Combiner Line
Line Length (feet)
Line loss per hundred feet (dB/100')
Line loss total (dB)

TPO (W)

W261BT
100.1
Analog

250

Bext TFC2K 4-bay
1.60
1
1.60

156

1-5/8" Foam AVA7-50
510
-0.198
-1.01

7/8" Foam AVA5-50
60
-0.355
-0.21

-1.2228

207

-2.30

352

1/2" Foam, RFS Cellflex LCF12-50J
15
-0.660
-0.0990

360

W265CG
100.9
Analog

250

Bext TFC2K 4-bay
1.61
1
1.61

155

1-5/8" Foam AVA7-50
510
-0.1980
-1.01

7/8" Foam AVA5-50
60
-0.3560
-0.21

-1.2234

206

-2.30

350

1/2" Foam, RFS Cellflex LCF12-50J
15
-0.661
-0.0992

358
