

## STI-CO® Commuter Bus Antenna

- Direct (stud) mount provides superior theft protection for your fleet vehicle to keep you connected
- Rugged low-profile design reduces breakage and life cycle costs
- Meets MIL-STD-810 / AREMA Environmental Standards

### ELECTRICAL SPECIFICATIONS<sup>1,2</sup>

MODEL NUMBER	RFPT-NB-800-WT-A
OPERATING BAND (MHz)	769-861
Bandwidth (MHz)	91
VSWR	< 1.5:1
AVERAGE EFFICIENCY (%)	87.6
AVERAGE PEAK GAIN (dBi)	2.92
POLARIZATION	Vertical
RADIATION PATTERN	Omnidirectional
INPUT IMPEDANCE ( $\Omega$ )	50
CONTINUOUS POWER RATING (W)	100

### MECHANICAL SPECIFICATIONS

OVERALL HEIGHT (Inches)	3.62
OVERALL DIAMETER (Inches)	1.67
WEIGHT (Ounces)	5.62
CONNECTION	N-Type Female
RADOME MATERIAL	UV-Stabilized PC/PBT (Xenoy®)
BASE MATERIAL	360 H02 Brass w/ Tri-Metal Finish
TEMPERATURE RANGE (°F)	-40 to +158



<sup>1</sup> Electrical performance of this antenna may vary depending upon mounting conditions.

<sup>2</sup> Measured on a 16-inch diameter ground plane, directly at input of antenna (cable loss not included).

ELECTRICAL ELECTRICAL DRAWING

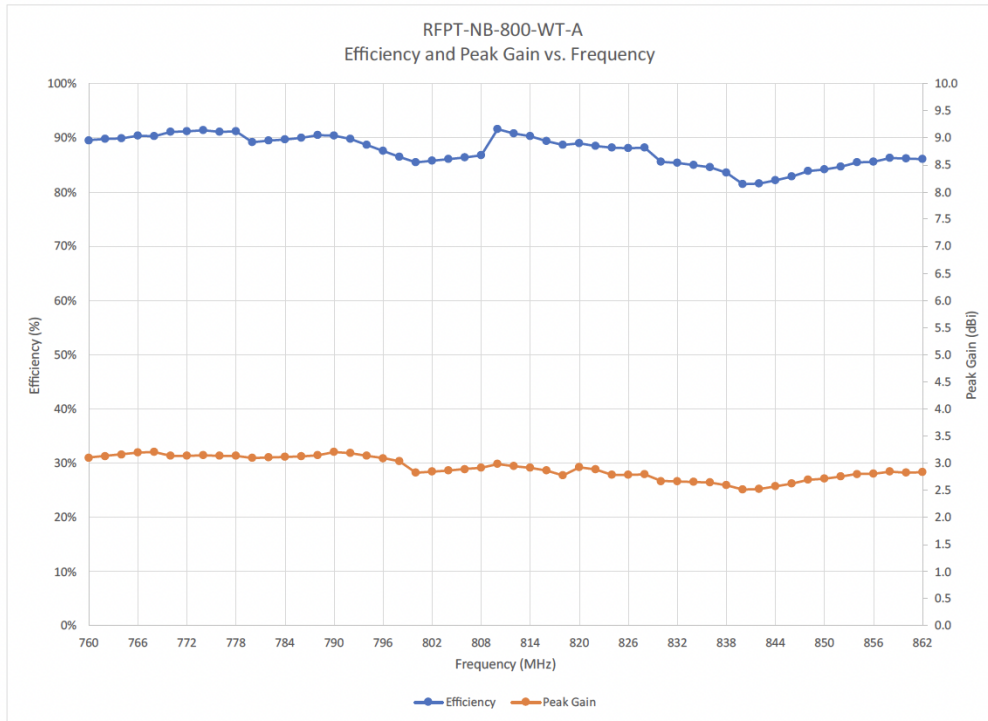


Figure 1 – Efficiency & Gain vs. Frequency

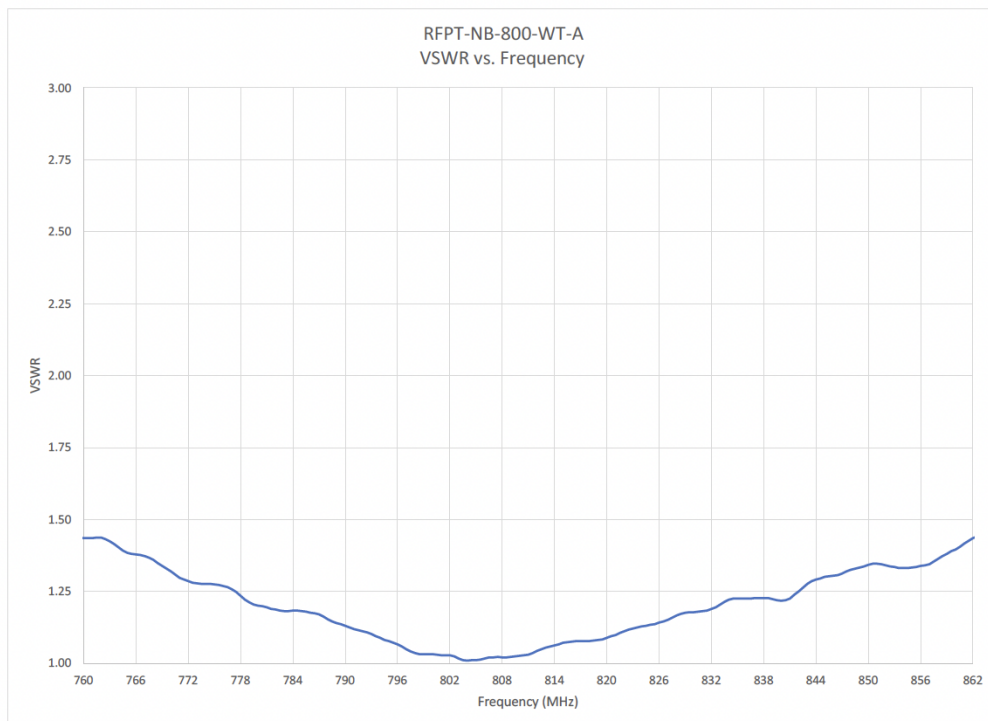


Figure 2 - VSWR vs. Frequency



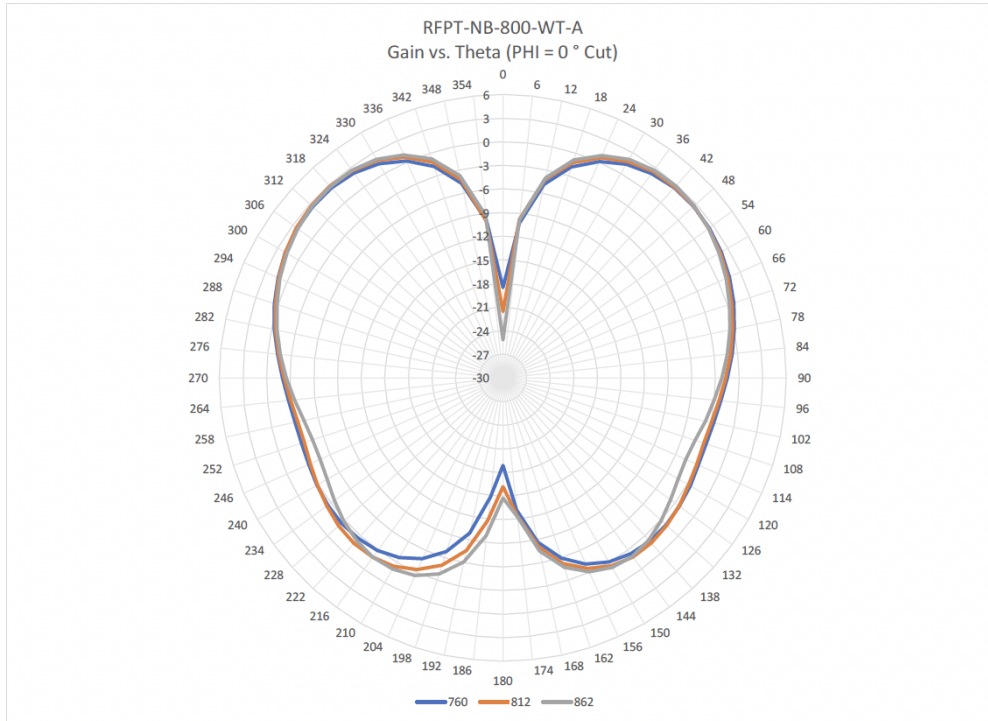


Figure 3 - Gain vs. Theta (PHI=0deg)

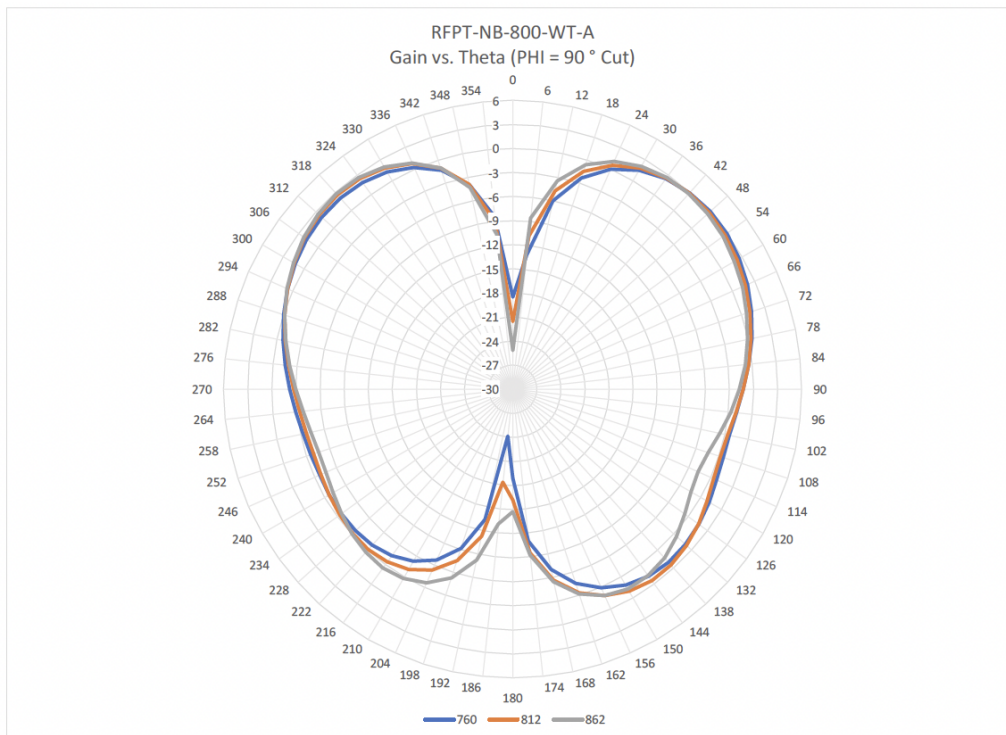


Figure 4 - Gain vs. Theta (PHI=90deg)

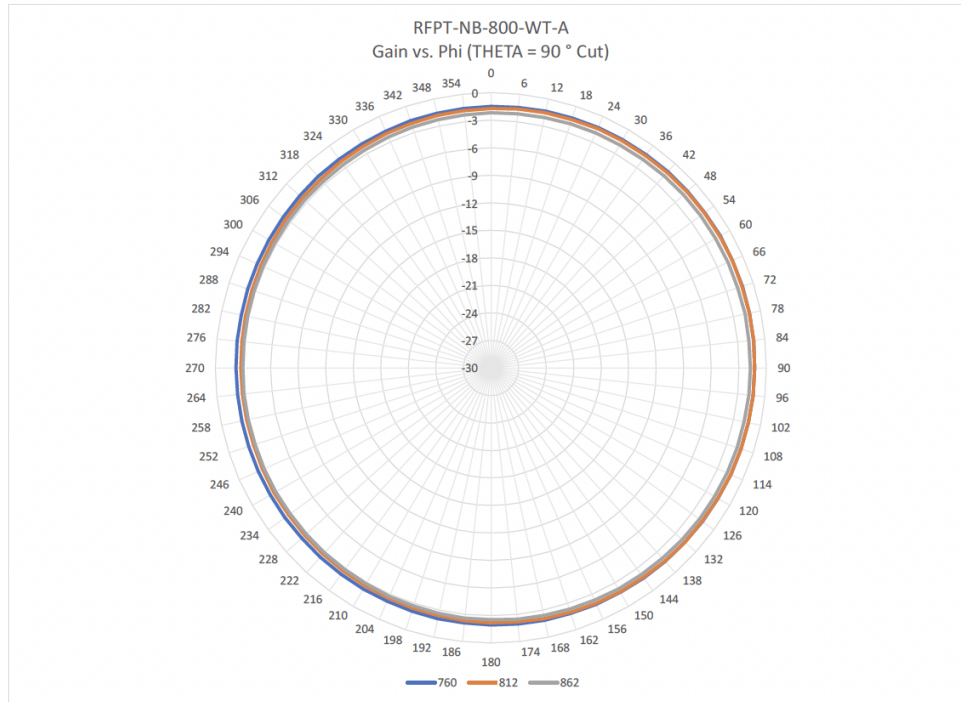


Figure 5 - Gain vs. Phi (THETA=90deg)

MECHANICAL ELECTRICAL DRAWING

