Myers Engineering International, Inc.

Passive Signal Enhancement examples: MOTOR HOME MOBILE PHONE RANGE EXPANSION

Goal: expand mobile phone coverage

Extension of mobile phone (cell phone) coverage by use of a rooftop antenna.





Coverage, mobile phone in hand



Range in kilometers

Basic range working into a 15 m (50 ft) tall cell site antenna tower is approximately 2.2 km (1.4 statute miles) indoors and 6.5 km (4.0 mi) outdoors.

Passive booster system description



Omnidirectional Passive Booster kit



Passive Booster kit description:

•Roof mounted/pole mounted antenna (UL-1400-D345USF)
•Coaxial cable, 8 meter (26 ft) with SMA connectors at ends
•Dual-Band RF coupler (UL-1400-D379USF)
•Cost: \$135
•Use existing Bluetooth headset for comfort and safety (optional) while driving

Coverage, with Passive Booster



Range in kilometers

Passive Booster range working into a 15 m (50 ft) tall cell site antenna tower is approx. 8.5 km (5.3 statute miles) indoors or outdoors (using a Bluetooth headset).