



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Smart Technology. Delivered.

Dual Band AVL Installation Instructions

The Dual Band Phantom®/GPS Antenna is designed for Automated Vehicle Location (AVL) applications. This surface mount antenna is a very low profile design featuring the field diversity characteristics of our patented Phantom® technology with an integrated active GPS patch antenna.

Caution: For proper performance the mounting area must be free of metal obstructions within 4" above or beside the antenna. An adequate metal ground plane must also be provided by the vehicle (see table on reverse side) under the antenna.





Mounting Instructions: Mark the center of the mounting location and drill a 5/8" diameter hole. Clean the surface around the hole with a detergent cleaner. Let surface dry thoroughly before inserting the mounting stud through the hole. The transmission line will pass through the mounting stud. Insert the lock washer, and hex nut; tighten securely. Do not exceed 5-7 ft-lbs of force on the hex nut. *Note: As the transmission line is very thin, take care to avoid breaking it during the routing procedure.*

Warranty: Laird Technologies warrants to the original purchaser that the products in this catalog will remain free from defects in materials and workmanship for a period of one year from the purchase date. If any such defect is discovered within the warranty period, Laird Technologies will at its sole option, repair or replace your product free of charge. This warranty applies only if the product is used in a normal fashion, and is void if the product is abused, disassembled, tampered with, used unreasonably, or fails as result of normal wear. Furthermore, this warranty applies only to defects which occur where the proper product is selected as recommended by Laird Technologies and is used in the fashion recommended by Laird Technologies. This warranty is in lieu of all other warranties, expressed or implied, and is limited to a period of one year from date of original purchase. Laird Technologies is not liable for incidental or consequential damages of any kind. Any warranty extended herein shall be limited to the price paid to Laird Technologies for the product. Where state and or local law governs the period of warranty such period shall control.

Model and Ordering Information

Model #	Description	Ground Plane Req'd.
GPSD7463P	Dual band AVL (GPS/Phantom® 746-786 MHz)	7.5"
GPSD8063P	Dual band AVL (GPS/Phantom® 806-866 MHz)	7"
GPSD8213P	Dual band AVL (GPS/Phantom® 821-896 MHz)	7"
GPSD8903P	Dual band AVL (GPS/Phantom® 890-960 MHz)	6.3"
GPSD9023P	Dual band AVL (GPS/Phantom® 902-928 MHz)	6.25"