



**AT135-3
GPS/VHFCOM/XM Antenna**



Combination GPS, VHF Communications and XM satellite receiver antenna is designed for use with WAAS Gamma 3 GPS receivers and is suitable for use on all turbine, turboprop, and piston airframes.

The AT135-3 is designed to replace three separate antennas with one antenna, reducing both weight and drag and minimizing the number of penetrations to the airframe. It is designed and approved under TSO C190 and TSO C169a.

AT135 - 3

SPECIFICATIONS

VHF SPECIFICATION:

FREQUENCY 118-137 MHz
POLARIZATION: VERTICAL
AXIAL RATIO: 3 dB MAX AT BORE SIGHT
RELATIVE RADIATION: OMNI DIRECTIONAL
IMPEDANCE: 50
VSWR: $\leq 2.5:1$
POWER RATING: 50 WATTS
CONNECTOR (VHF) BNC

XM SPECIFICATION:

FREQUENCY: 2332.5-2345 MHZ
POLARIZATION: LEFT HAND CIRCULAR
AXIAL RATION: 3 dB MAX AT BORE SIGHT
GAIN: 24 ± 2 dB
NOISE FIGURE: 1.1 dB MAX @ 25°C
IMPEDANCE: 50 OHMS
VSWR: $\leq 1.5:1$
INPUT IP3 -15dBm (MIN)
DC VOLTAGE: 3.6-5.5 VDC
DC CURRENT: 55 mA MAX
CONNECTOR: TNC

GPS SPECIFICATION:

FREQUENCY: 1575.42 ± 10.23 MHZ
POLARIZATION: RIGHT HAND CIRCULAR
AXIAL RATION: 3 dB MAX AT BORE SIGHT
RELATIVE RADIATION: PER RTCA/DO-301
GAIN: 29.5 ± 3 dB OVER TEMP.
NOISE FIGURE 2.5 dB MAX. @25°C
IMPEDANCE: 50 OHMS
VSWR: $< 1.5:1$
POWER HANDELING: 1 WATT
VOLTAGE: 4.5-15 VDC
CURRENT: 60 mA MAX.
CONNECTOR: TNC

COMMON SPECIFICATION:

FINISH: POLYURETHANE ENAMEL
FLUID RESITANT, WHITE
WEIGHT: 21 OZ. MAX.
ALTITUDE: 55,000'
OPERATING TEMP: -55°C TO +70°C
STORAGE TEMP: -55°C TO +85°C
DESIGNED TO: DO-160E
ENV CAT:
F2-ABB[S(CLY)XSFSFSZXXB[ZCZW]YH[A4J44]][1C]CAC
TSO: C-190, INCOMPLETE C-169A