AV-520

VOR/LOC/GS

FAA TSO: C34e, C36e, C40c

The AV-520 is “V” style VOR/LOC/GS antenna utilizing detachable painted stainless steel elements and internal balun transformer. The antenna is rated at speeds up to 350 mph and altitudes up to 50,000 feet. It is a direct replacement for the CI 159C.

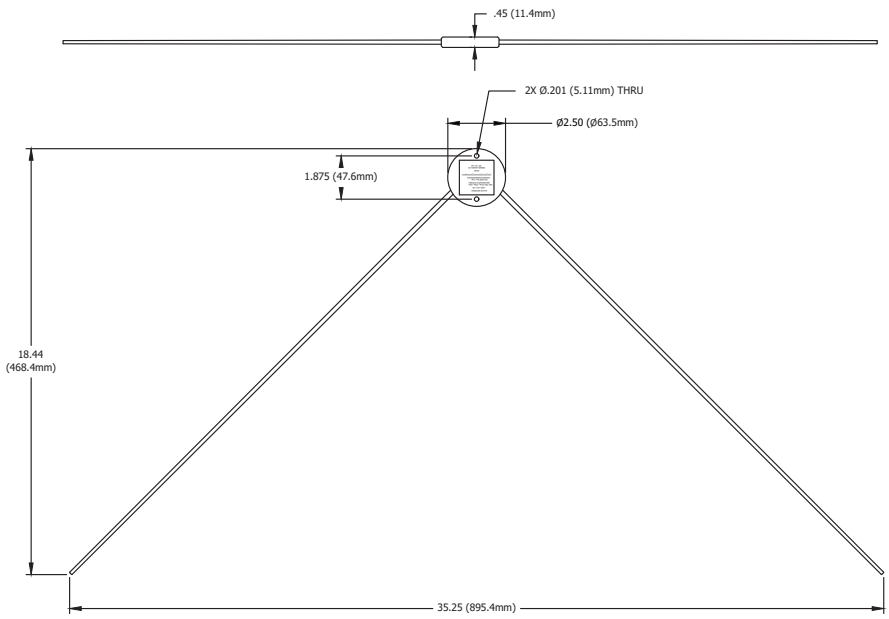


Product Specifications

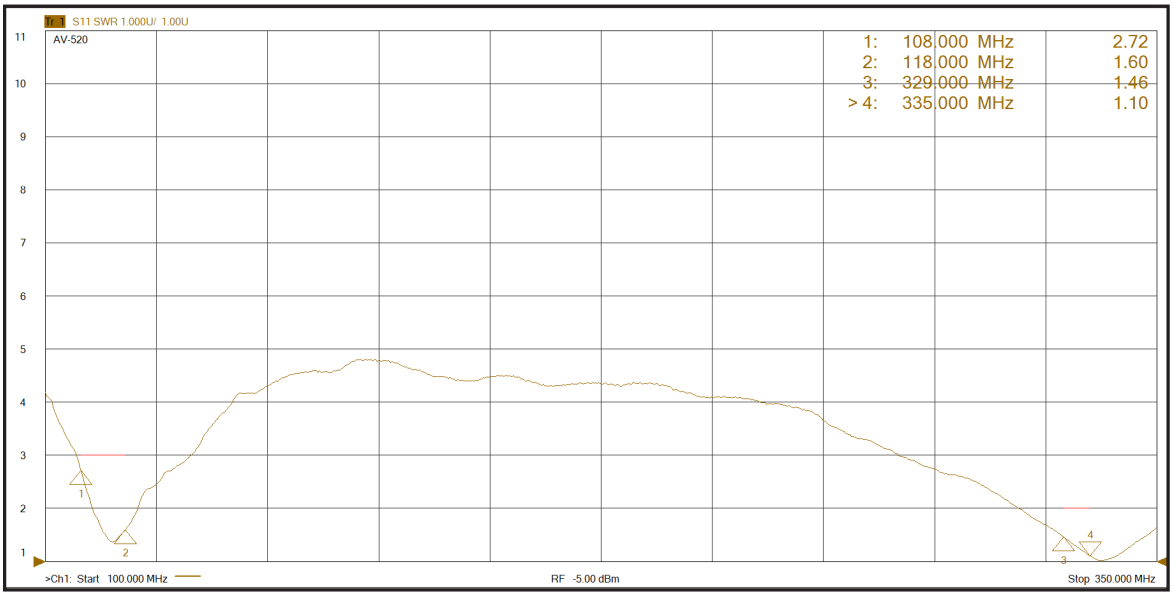
Application		VOR/LOC/GS Receive Only
Frequency		108-118 MHz 328-336 MHz
Impedance		50 Ohms Nominal
VSWR	*108-118 MHz:* *328-336 MHz:*	3.0:1 Maximum 2.0:1 Maximum
Polarization		Horizontal
Pattern		Omni-Directional
Connector		BNC Female
RF Power Capacity		N/A Receive Only
FAA TSO		C34, C36e, C40c

Mechanical Specifications

Height	18.44"	468.38 mm
Weight	8 oz	0.23 kg



VSWR


Tr1 S11 SWR 1.000U/ 1.00U
AV-520
1: 108.000 MHz 2.72
2: 118.000 MHz 1.60
3: 329.000 MHz 1.46
> 4: 335.000 MHz 1.10
11
10
9
8
7
6
5
4
3
2
1
>Ch1: Start 100.000 MHz
RF -5.00 dBm
Stop 350.000 MHz

AV-520 INSTALLATION INSTRUCTIONS
VOR, LOC, & GS “V” Dipole Antenna for General Aviation

Frequency Ranges:
108-118 MHz (VOR/LOC)
328-336 MHz (GS)

The ideal mounting location for the VOR, LOC & GS “V” Dipole Antenna is on top of the vertical stabilizer. This location allows the antenna elements to be in an open area, free from any reflections or shadowing caused by the metal aircraft structure which can cause poor performance.

INSTALLATION INSTRUCTIONS

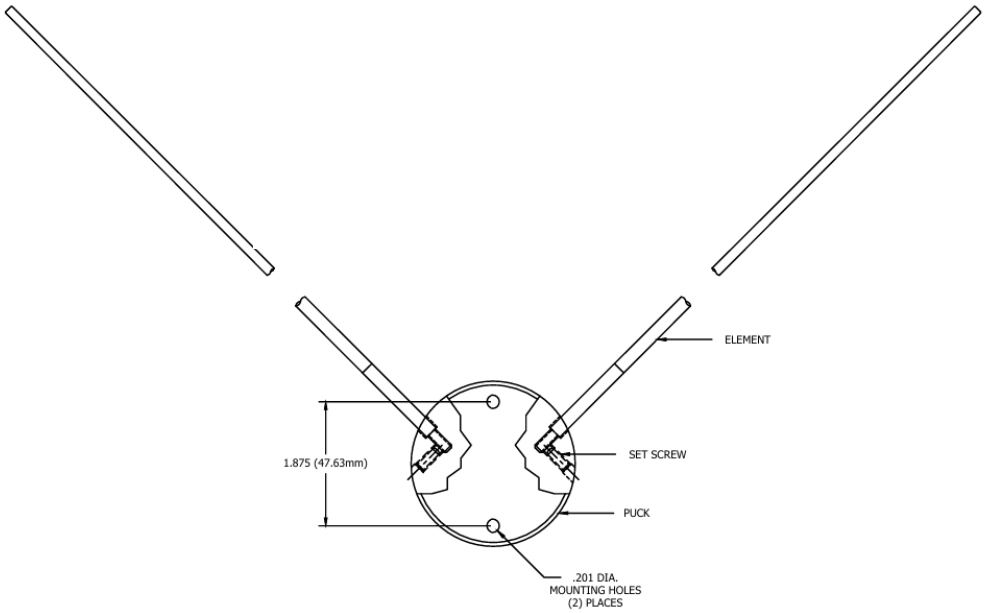
1.) Loosen set screws provided from puck.

2.) Thread the two elements into the puck until seated. Thread the set screws into the puck to secure the elements.

3.) Drill two 0.203” (13/64) diameter mounting holes on aircraft at the specified distance apart shown below.

4.) Mount the antenna using appropriate hardware.

5.) Route and attach cable from receiver or antenna coupler using Amphenol Connex BNC plug crimp connector (P/N: 112116 or equivalent).



Doc. #27-520-1
Rev.: D, Sept. 2014