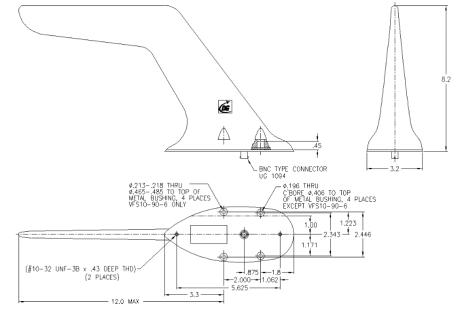
VFS10-90-() VHF Communications Antenna



Excellence in Aerospace since 1943





Specifications

Electrical

Licethear				
Frequency	See Chart	See Chart		
VSWR	See Chart	See Chart		
Polarization	Vertical	Vertical		
Radiation Pattern	Omnidirectio	Omnidirectional		
Gain	117.5 MHz	-1.0 dBi		
	130MHz	4.0 dBi		
	150 MHz	0 dBi		
Impedance	50 Ohms			
Power	100 Watts			

Mechanical

Weight	See Chart
Height	8.2 in (208.3 mm)
Material	Fiberglass
Finish	See Chart
Connector	BNC

Environmental

Speed Rating	600 knots	
Temperature	-55 °C to +70 °C	
Vibration	Funct: 4.12 g _{RMS}	
	End: 5.85 g _{RMS}	
Shock	20 g _{PK} , 11 msec	

Federal Specifications

Approvals

FAA TSO-C169a* *This antenna's TSO qualification was upgraded from TSO-C37b & TSO-C38b on 1/3/2018

VFS10-90-() VHF Communications Antenna

The VFS10-90-() antennas consist of a series of vertically polarized VHF communications antennas. The bent blade design offers high performance in a low-profile envelope.

Series

DG PN	Freq. (MHz)	VSWR	Weight	Color	Notes
VFS10-90-2	118-150	2.5:1	1.3 lbs	White	Designed to operate in a specific range of 118-150 MHz.
VFS10-90-3	139.5	2.5:1	2.0 lbs	White	
VFS10-90-4	118-136	2.5:1	1.7 lbs	Black	
VFS10-90-5	118-136	3.0:1	1.3 lbs	White	Designed with DG PN 15340 static discharger mounted at the trailing edge of the antenna.
VFS10-90-6	116-118 118-150	3.5:1 2.5:1	1.6 lbs	Black	Designed for Bell Helicopter.
VFS10-90-7	118-136	3.0:1	1.3 lbs	White	Designed with DG PN 16390 static discharger mounted at the trailing edge of the antenna.
VFS10-90-8	118-153	2.5:1	1.3 lbs	White	Increased frequency range coverage to handle satellite VHF links and VHF comms.
VFS10-90-9	118-153	2.5:1	1.3 lbs	Black	Increased frequency range coverage to handle satellite VHF links and VHF comms.
VFS10-90-10	118-153	2.5:1	1.5 lbs	White	Designed with an O- ring on base and erosion protection on leading edge.
VFS10-90-11	118-150	2.5:1	1.3 lbs	Black	

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