



L3HARRIS™
FAST. FORWARD.

SB-V16/SB-V35

Vertical HF Whip Antennas

ELECTRICAL

Frequency Range	2 to 30 MHz with RF-382 or RF-2601 Antenna Coupler
RF Power Capacity	-B: 400 watts -C and -F: 1000 watts
Input Impedance	Compatible with RF-382 or RF-2601 Series Antenna Coupler
Radiation Pattern	Elevation: see radiation patterns below Azimuth: omnidirectional
Polarization	Vertical
VSMR	In accordance with RF-382 and RF-2601 Coupler Specifications
Gain	SB-V16-V35:>2 dBi SB-V16-V35:>2 dBi

ENVIRONMENTAL

Temperature	Operating: -40°C to + 60°C
Relative Humidity	0 to 100%
Wind	SB-V35: -45 mph without guys -100 mph with guys

MECHANICAL

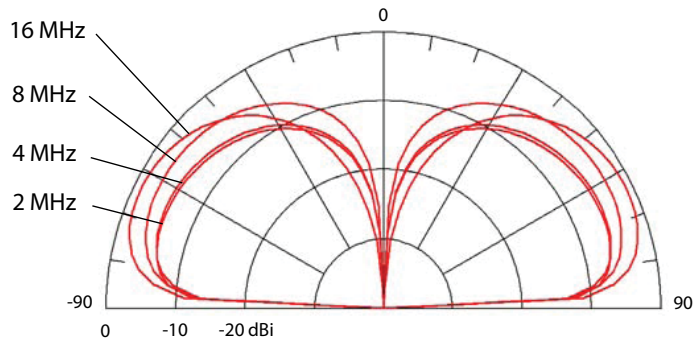
RF Connector	2 to 30 MHz with RF-382 or RF-2601 Antenna Coupler
Weight	SB-V16B: 5 lbs (2.3 kg) SB-V35B: 11 lbs (5 kg) SB-V16C: 9 lbs (4.1 kg) SB-V35C: 15 lbs (6.8 kg) SB-V16F: 14 lbs (6.4 kg) SB-V35F: 20 lbs (9.1 kg)
Mounting Interface	SB-V16B or SB-V35B: Feed through base (2" hole, 1.5" thread depth, 12 NF thread) SB-V16F or SB-V35F: Spring Base compatible with RF-292 (4-3/8" holes equally spaced on 4.5" diameter) SB-V16C or SB-V35C: Flange Base (6-13/32" hole equally spaced in a 7.75" diameter)
Installation Time	2 minutes, 1 person



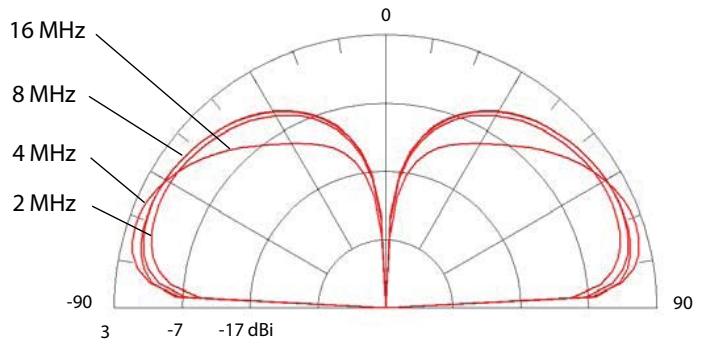
The SB-V16/SB-V35 antennas are fast assembly and deployment solutions providing omnidirectional low-angle radiation patterns for ground-wave and skywave propagation from 2 to 30 MHz. Ideal for shelters, vehicular and fixed-site applications, the antennas include a base and tapered 4-foot (1.2 m) sections with the RF conductor embedded in woven fiberglass to produce an exceptionally tough but flexible whip antenna. The SB-V16 has four whip sections for a total of a 16-foot height and the SB-V35 has eight sections for a 32-foot height.

The SB-V16B and SB-V35B have feed-through bases for 2-inch (5.08 cm) hole mounting. The SB-V16C and SB-V35C have flange bases suitable for 6-bolt, flat surface mounting. The SB-V16F and SB-V35F have flexible spring bases compatible with the L3Harris RF-292 for vehicular use.

RADIATION PATTERNS OVER AVERAGE GROUND



SB-V16 above 8–18 Ground Radials



SB-V35 above 8–18 Ground Radials

SB-V16/SB-V35 Vertical HF Whip Antennas

© 2020 L3Harris Technologies, Inc. | 03/2020 SP145

Non-Export Controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



L3HARRIS™
FAST. FORWARD.

1025 W. NASA Boulevard
Melbourne, FL 32919