

LB3088 V3C

VHF manpack blade, monopole, 1.59 m, 30–88 MHz

Tactical Antennas: Handheld and Manpack



The LB3088 V3C is a tape antenna designed to be used in the 30 to 88 MHz band. The antenna is intended for mounting on the new generation manpack VHF combat radios and particularly on the F@STNET radio. It has been designed for environments with difficult penetration.

Construction

The LB3088 V3C antenna consists of a blade whip, a gooseneck (flexible base) and a matching unit with a BNC connection. The tape whip is made of a double layer of steel tape elements with a curve shape which allows sliding between each other while being flexible and rigid. Cohesion between both tape layers is made by a rubber protection which allows the outer tapes to slide along the rubber.

Electrical Specifications

Frequency Range	30 - 88 MHz
Polarisation	Vertical
VSWR	< 5.5
Gain (radio on manpack)	- 10 dB to - 1 dBd
Permissible Power	> 20 W (- 40°C to + 71°C)
Input Impedance	50 Ω
Connection	BNC compatible with F@STNET radio
EMP Protection	Yes

Mechanical Specifications

Total Length	1590 mm
AMU Gooseneck Length	282.5 mm
Tape Length	1318 mm
Total Weight	440 g

Environmental Characteristics

Tests on the LB3088 V3C have been performed according to climatic and environmental standard MIL-STD-810E and GAM-T13. The below table represents the general information about the results and qualification tests.

Environmental Condition	MIL-STD-810E (Method)	GAM-T13 (Fascicules)
Low Air Pressure	500.3	05-01
Dry Heat	501.3	02-02 et 02-01
Low Temperature	502.3	01-02 et 01-01
Thermal Shock	503.3	07-01
Solar Radiation	505.3	09
Rain	506.3	12
Humidity	507.3	03-01
Salt Fog	509.3	04-01
Sand and Dust	510.3	18
Immersion	512.3	15
Ice/Icing Rain	521.1	22
Contamination by Fluids	Specification 46 245 810 - 532	

Mechanical Environment

Tests on the LB3088 V3C have been performed according to standard MIL-STD-810E and GAM-T13. The below table represents the general information about the results and qualification test.

Environmental Conditions	MIL-STD-810E (Method)	GAM-T13 (Fascicules)
Sinusoidal Vibrations	514.4	41-02
Mechanical Shocks	516.4	43
Free Drops	516.4	46
Bumps	514.4	44



September 2018

All specifications are subject to change without notice
The information contained herein is for reference only and does not constitute a warranty of performance

Partnered Supplier



sales@eylex.com.au
www.eylex.com.au

