LB3088V3C

Broadband Manpack VHF Tape Antenna

GENERAL DESCRIPTION

Tape antenna for use in 30 to 88 MHz band.

APPLICATION

Antenna intended for mounting on new generation manpack VHF combat radios, and particularly on the F@STNET.
It is particularly designed for environments with difficult penetration.

CONSTRUCTION

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

REFERENCES

COMROD name : LB3088 V3C
COMROD reference : F3435-76436-3

ELECTRICAL SPECIFICATION

Frequency range	30-88 MHz
Polarisation	Vertical
V.S.W.R.	< 5.5
Gain (Radio on man back)	-10dB to -1dBd
Permissible power	> 20 W (-40°C to +71°C)
Input impedance	50 Ω
Connection	BNC compatible with F@STNET radio
EMP protection	Yes

MECHANICAL SPECIFICATION

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

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ENVIRONMENTAL CHARACTERISTICS

Tests are performed according to climatic and environmental standard MIL STD-810E and GAM-T13. The following table presents general information about performed qualification tests. More details are available upon request.

Environmental condition	MIL-STD 810 E 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 chock	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 are performed according to standard MIL STD-810E. The following table presents general information about performed qualification tests. More details are available upon request.

Environmental condition	MIL-STD 810 E Method	GAM-T13 Fascicules
Sinusoidal vibrations	514.4	41-02
Mechanical shocks	516.4	43
Free drops	516.4	46
Bumps	514.4	44