



Norsat
International Inc.



Innovative Communication Solutions

BDC KU-BAND BDC-1000XAIR AIRBORNE EXT. REF.

FEATURES

The BDC-1000XAIR is a high performance BDC that has been hardened to withstand the vibration and environmental conditions of aircraft operations. The BDC-1000XAIR is single box solution for commercial in-flight connectivity with multiple service providers. Features include:

- Dual band, multiple L.O.
- Fully customizable for frequency and LO stability
- Certified for airborne applications, airline tested

TYPICAL SPECIFICATIONS

Noise figure	0.8 dB
L.O Stability (Over Temp. excel offset)	Phase locked to ext. ref.
Phase noise (SSB)	-72 dBc/Hz at 1 kHz -83 dBc/Hz at 10 kHz -95 dBc/Hz at 100 kHz -120 dBc/Hz at 1 MHz
Input VSWR	1.5 : 1
Output VSWR	1.5 : 1

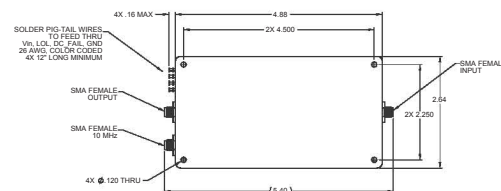
FREQUENCY BANDS

Input frequency (GHz)	Band 1: 10.7 – 11.7 GHz Band 2 : 11.7 - 12.75 GHz
L.O. frequency (GHz)	Band 1: 9.75 GHz (13VDC), Band 2: 10.60 GHz (18VDC)
Output frequency (MHz)	Band 1: 950 – 1950 MHz Band 2: 1100 – 2150 MHz



Conversion gain	27 +/- 2dB
Gain Stability over temp at any constant frequency	+/- 1.0 dB
Output P1dB	5 dBm
Power Requirements	Band 1: 13 VDC Band 2: 18 VDC
Current drain	300 mA max
Temperature range	-20 to +75 C -4 to +167 F
Dimensions	4.9L X 2.6W X 0.9H inches 124 x 66 x 23 mm
Weight	14.1 OZ / 400g

MECHANICAL DIAGRAM



HOW TO ORDER

BDC-1000XAIR



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