



mBLC-10

10 WATT C BAND AND WIDE C BAND BLOCK UP CONVERTER

FEATURES:

- Output power (at 1dB compression) 40dBm
Min. over all conditions
- Fanless
- Feed Mountable
- Extremely Compact & Low Weight
- 17-60V Operating Voltage
- DC via IFL or Ext. Connector
- Operating Temperature -40 to +55 Deg. C
- Available in C-Band and Wide C Band frequencies

The C Band VSAT upconverter transmitter is a linear outdoor unit used for the uplink of a VSAT network.

Its new design and light weight makes it ideal for direct mounting on the VSAT antenna feed or OMT.

Its competitive pricing and large install base in countries with extreme weather conditions makes the mBLC-10 an ideal choice for all VSAT and SCPC applications.

Electrical

Input impedance 50Ω/75Ω

Input VSWR 2:1

Band	C-Band	Wide C
Input frequency	950-1525 MHz	950-1825MHz
Output frequency	5.85-6.425 GHz	5.85-6.725GHz
L.O. frequency	4900 MHz	4900MHz
Belcom Model	mBLC-10	mBLW-10

Output power (at 1 Gain Comp) +40 OdBm (min.)

Gain(nominal) 62±3 dB

Gain Flatness

Over any 36 MHz band ±0.75 dB max

Over frequency range ±2.0 dB max

Gain stability (over temp. for constant freq.) ±2.0dB

Ref. signal External 10MHz(std.) 0 ±5dBm

Phase Noise

- At 100 Hz offset -60dBc/Hz
- At 1 KHz offset -70dBc/Hz
- At 10 KHz offset -80dBc/Hz
- At 100 KHz offset -90dBc/Hz
- At 1 MHz offset -100 dBc/Hz

Harmonics and Spurious Signals

Up to 1dB comp. In Band -20dbm max

3rd order intercept point, IP3 48dbm (min)

Stability: The unit will not oscillate under any condition of load, temperature or DC supply.

Input DC Voltage +17 to 60V

DC power consumption (max) 70W

Protection

Thermal protection

No failure for any combination of load reflections

Protected against lightning and voltage transitions.

Designed to meet EN301-489-1,-12(EMC) & EN60950-1,-22(Safety)

Missing 10MHz Ref. shuts transmitter to -30dBm max

Mechanical

IF + DC + reference input 75Ω, F-Type (f)

50Ω, N-Type (optional)

RF output CPR-137

Weight 3.15KG

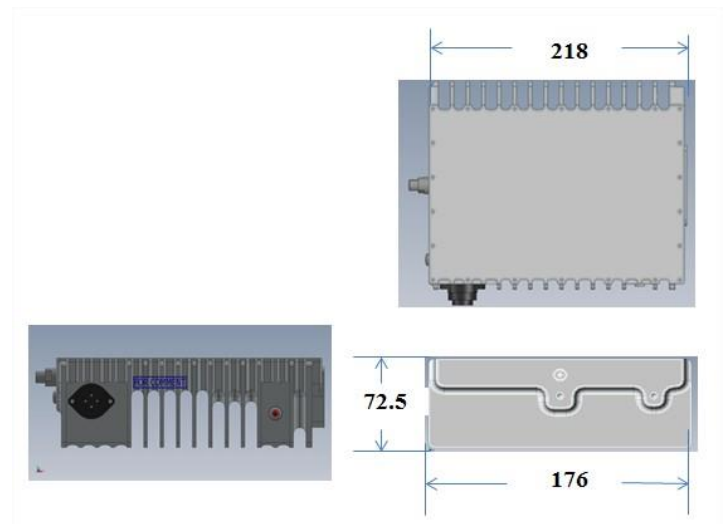
Finish White polyurethane paint

Environmental

Operating Temperature -40°C to +55°C

Sealing IP64

Outline Drawing



All the dimensions are in mm

Ordering Information

mBLX-Y-Z

X = C 5.85-6.425GHz

W 5.85-6.725GHz

Y = F F Type 75Ω conn.

N N Type 50Ω conn.

Z = I DC via IFL

E DC via Ext. Conn.