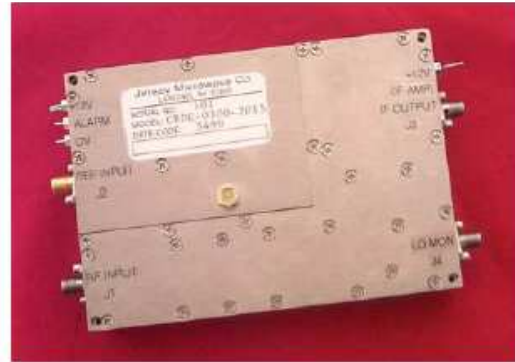


Phase-Locked Block Up & Down Converters

- ✓ Excellent Frequency Stability
- ✓ Voltage Regulator & Delay Circuit Included
- ✓ High Output Power & Low Phase Noise
- ✓ Stable Gain Over Temperature (2.0 dB Max)
- ✓ High Reliability & Low Cost
- ✓ Low Power Consumption
- ✓ Locks To External 50 MHz / 10 MHz (Optional)
- ✓ Intelsat/Eutelsat Compliant
- ✓ 5, 10 and 20 Watt versions available



Description

The *Jersey Microwave* Block Converter series are specially designed to translate a block of L-Band frequencies to either C-Band, X-Band or Ku-Band frequencies, or vice versa, for use in transmitting or receiving applications for Intelsat, Eutelsat, and other satellite communications systems.

CBUC & CBDC - Series

| Designation | Input Frequency | Output Frequency | LO Frequency |
|----------------|-----------------|------------------|--------------|
| CBUC-0915-2017 | 950 – 1525 MHz | 5.85 – 6.425 GHz | 4.90 GHz |
| CBDC-3642-2018 | 3.6 – 4.2 GHz | 950 – 1550 MHz | 5.15 GHz |

KBUC/XBUC & KBDC/XBDC - Series

| Designation | Input Frequency | Output Frequency | LO Frequency |
|----------------|-------------------|-------------------|--------------|
| KBUC-0915-2018 | 950 – 1700 MHz | 13.75 – 14.50 GHz | 12.8 GHz |
| KBDC-1011-2075 | 10.95 – 11.75 GHz | 950 – 1750 MHz | 10.0 GHz |
| XBUC-0915-2015 | 950 – 1450 MHz | 7.90- 8.40 GHz | 6.95 GHz |
| XBDC-7277-2015 | 7.25 – 7.75 GHz | 950 – 1450 MHz | 6.30 GHz |
| KBDC-1012-2015 | 11.50 – 12.25 GHz | 950 – 1700 MHz | 10.55 GHz |
| KBDC-1212-2015 | 12.25 – 12.75 GHz | 950 – 1450 MHz | 11.30 GHz |

Requirements on the characteristics of the external reference

| Parameter | Remark | Min. | Typ. | Max. | Units |
|---------------------------|-----------------------|------|-------|------|--------|
| Reference Frequency | | | 50.00 | | MHz |
| Reference Input Level | | -10 | +3 | +10 | dBm |
| Reference Input Impedance | | | 50 | | Ohm |
| Reference Phase Noise | Offset frequency (fm) | | | | |
| | 10 Hz | | | -105 | dBc/Hz |
| | 100 Hz | | | -135 | dBc/Hz |
| | 1 KHz | | | -145 | dBc/Hz |
| | 10 KHz | | | -150 | dBc/Hz |



Phase Noise of Phase-Locked DRO Unit:

