2006-03, -04 Upconverters, Fixed Frequency

The Model 2006-03, -04 Upconverters convert a 70 or 140 MHz IF signal to L-Band with a 1130 MHz LO frequency (-03) or to an L-Band frequency specified at order (-04) for loop-back applications. The IF input goes to the attenuator, mixer and output amplifier providing -5 dB gain. A green LED indicates the presence of DC power, and a terminal block connector provides indication of a PLL alarm. Power is provided by the LNB voltage from the receiver under test and connectors are BNC female for the IF input and type-F female for the RF output. A 115 VAC, 60Hz wall power supply (option -P) and a 100-240 ±10% VAC, 47-63 Hz wall power supply (option -P4) are available. Specify US, EUR, AUS or UK plug for the -P4 option.

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**EQUIPMENT SPECIFICATIONS**

**Input Characteristics**
- Impedance / RL: 75Ω / 15dB
- Frequency: 70 or 140 MHz center
- Level: -20 to -10 dBm
- 1dB Compression: 0 dBm

**Output Characteristics**
- Impedance / RL: 75Ω / 12dB
- Frequency, LO: 1130 MHz (-03); 1020 - 1520 MHz, FIXED, factory set (-04)
- Frequency: LO + IF (Ku), LO, and LO - IF (C)
- Level: -15 dBm with -10dBm in

**Channel Characteristics**
- Gain: -5 dB ± 2 dB
- Spurious Response: NA, output not filtered
- Frequency Sense: Inverted (C) or Non-inverted (Ku)
- Frequency Response: ±0.5 dB, any 10 MHz increment

**Synthesizer Characteristics**
- Frequency Accuracy: ± 25 kHz maximum
- Phase Noise @ Freq: dB/Hz
  - 10kHz: -80
  - 100kHz: -90
  - 1 MHz: -100

**Indicators**
- DC Power: Green LED
- PLL Alarm: Terminal Block (open collector to ground - minimum sink current is 16mA)

**Other**
- RF Connector: Type-F (female)
- IF Connector: BNC (female)
- Size: 3.3” wide X 1.2” high X 4.0” deep
- Power: +14 to +20 VDC, 150 mA max from LNB on RF OUT
- Power (option -P): 120 ± 10% VAC, 60Hz, 10 watts max, wall mount power supply (optional)
- Power (option -P4): 100-240 ±10% VAC, 47-63 Hz, 10 watts max, wall mount power supply (optional)

*Indicates subject to change without notice*