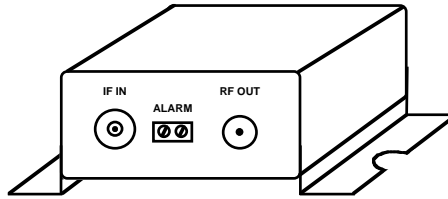


## 2006-03, -04 Upconverters, Fixed Frequency

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.



**2006-03,-04**

### 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
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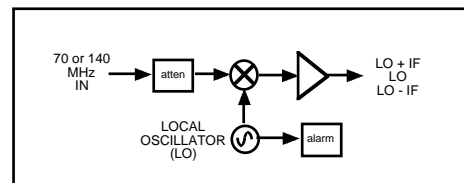
Phase Noise @ Freq	10kHz	100kHz	1 MHz
dBC/Hz	-80	-90	-100

#### 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 ( <b>option -P</b> )	120 ± 10% VAC, 60Hz, 10 watts max, wall mount power supply (optional)
Power ( <b>option -P4</b> )	100-240 ±10% VAC, 47-63 Hz, 10 watts max, wall mount power supply (optional)



**2006-03,-04 BLOCK DIAGRAM**

\*10°C to 40°C; 2000m max elevation; 80% max humidity; Pollution Degree 2; Specifications subject to change without notice