CROSS TECHNOLOGIES, INC.

DATA SHEET

2/19/03

Series 2006 Fixed Frequency Upconverters

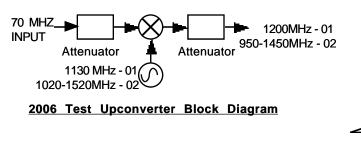
The Model 2006-01 Upconverter, 1130 MHz LO converts a 70 or 140 MHz signal to L-Band with a 1130 MHz LO frequency. The Model 2006-02 Upconverter converts a 70 or 140 MHz IF signal to L-Band at a frequency specified by the customer.

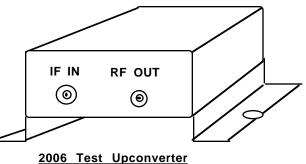
EQUIPMENT FEATURES

- Low phase noise, Phase Locked Loop oscillator
- 70 or 140 MHz Input, L-Band Output

EQUIPMENT DESCRIPTION

The 70 or 140 MHz carrier input is mixed with a 1130 MHz local oscillator (LO) signal for the 2006-01 and a customer specified LO from 1020 to 1520 MHz for the 2006-02. The 2006-02's frequency can be changed in the field by replacing the controller IC. The mixer output is applied to the output attenuator providing a nominal gain of -25dB. A green LED indicates the presence of DC power. Power is provided by the LNB voltage from the receiver under test and connectors are BNC female for the 70 MHz input and F, female for the RF output. The Series 2006 Test Upconverters can be powered by an optional wall power supply.





EQUIPMENT SPECIFICATIONS* Input Characteristics 2006-01 2006-02 Input Impedance/RL 75 Ω /10db 75 Ω/10db Frequency 70 or 140 MHz center 70 or 140 MHz center Input Level -10 to -20 dBm -10 to -20 dBm Input 1dB/3RD ORDER 0 / +10 dBm 0 / +10 dBm **Output Characteristics** Impedance/RL 75 Ω/8db 75 Ω/8db Frequency, LO 1130 MHz 1020 - 1520 MHz, Customer specified Frequency, Ku, 70 in 1200 MHz LO + 70, +140 Frequency, C, 70 in 1060 MHz LO - 70, -140 -35dBm, with -10dBm in -35dBm, with -10dBm in Level **Channel Characteristics** -25dB ±5 dB -25dB ±4 dB Gain **Spurious Response** NA; output not filtered NA; output not filtered **Frequency Response** ±0.7 dB, any 10 MHz incr. ±0.5 dB, any 10 MHz incr. Synthesizer Characteristics Frequency Accuracy ± 25 kHz max ± 25 kHz max Phase Noise (dBC/Hz) ≤ -80, 10 kHz; ≤ -90, 100 kHz; ≤ -100, 1 MHz **Frequency Selection** NONE: Fixed tuned Field changeable Indicators DC Power Green LED Green LED Other (Applies to both 2006-01 and 2006-02) **RF, IF Connectors** F, female, BNC, female 3.4" wide X 1.7" high X 4.0" deep Size +14 to +20VDC, 150 ma on RF In; Optional wall mount power supply Power

*+10 to +40 degrees C; Specifications subject to change without notice

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