**CROSS TECHNOLOGIES, INC.**

DATA SHEET

4/10/17

Series 2006-11, -12 Fixed Frequency Upconverter

The Model 2006-11 Upconverter converts a 70 or 140 MHz signal to L-Band with a 1130 MHz LO frequency (-11) or to L-Band at a frequency specified at order (-12) for loop-back applications. The 70 or 140 MHz IF input signal first goes to the gain selection switch providing a gain of -5dB (high gain) or -25 dB (low gain. 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 IF input and F, female for the RF output.
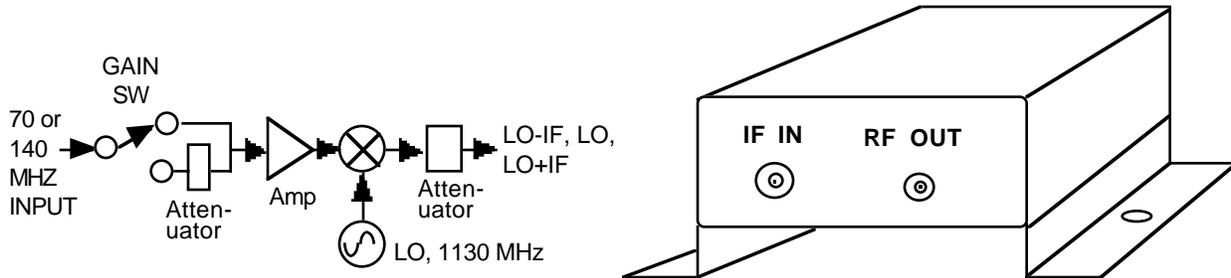
2006-11, -12 Test Upconverter Block Diagram and Chassis

EQUIPMENT SPECIFICATIONS*

Input Characteristics	2006-11	2006-12
Input Impedance/RL	75 Ω /15 dB	75 Ω /15 dB
Frequency	70 or 140 MHz center	70 or 140 MHz center
Input Level, range	-30 to -10 dBm (low gain), -50 to -30 dBm (high gain)	
Input 1 dB Compr	+0 dBm (low gain), -20dBm (high gain)	
Output Characteristics		
Impedance/RL	75 Ω/12 dB	75 Ω/12 dB
Freq. , LO	1130 MHz	1020 - 1520 MHz, fixed
Freq. , Ku, 70 MHz	1200 MHz	LO + 70, +140 MHz
Freq. , C, 70 MHz	1060 MHz	LO - 70, -140 MHz
Level, with -10 dBm in	-35 dBm (low gain)	-35 dBm (low gain)
Channel Characteristics		
Gain	-25, ±3 dB (low gain); -5, ±3 dB (high gain);	
Spurious Response	NA; output not filtered	NA; output not filtered
Frequency Response	±0.5 dB, over 10 MHz	±0.5 dB, over 10 MHz
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	Changeable
Indicators		
DC Power	Green LED	Green LED
Other (Applies to both 2006-01 and 2006-02)		
RF, IF Connectors	F, female, BNC, female	
Size	3.4" wide X 1.2" high X 4.0" deep	
Power	+14 to +20 VDC, 150 ma on RF In;	
	(-P) +15 VDC, 150 ma, 115 VAC,	
	wall power supply	

*+10 to +40 degrees C; 2000 meters max elevation; 80% max humidity; Pollution Degree 2;
Specfications subject to change without notice.