CROSS TECHNOLOGIES, INC.

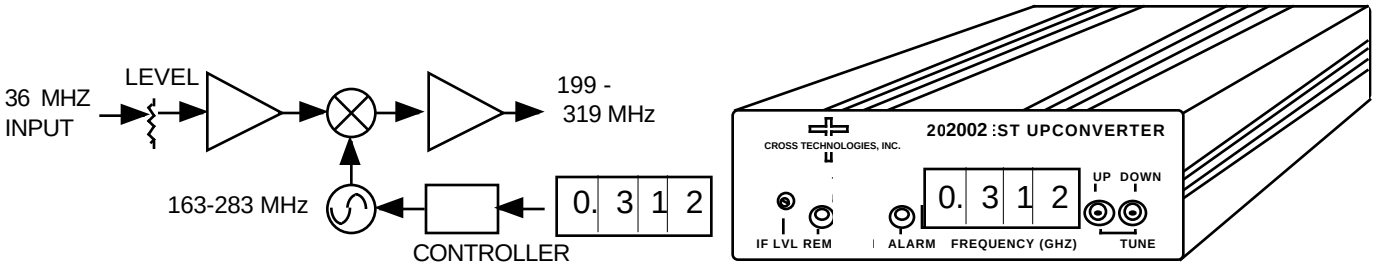
DATA SHEET

4/2/01

2002-32, -33 Agile Test 0.2 -0.3 GHZ UPCONVERTER

EQUIPMENT DESCRIPTION

The 2002-32 and -33 convert a 36 MHz IF signal to 199 to 319 MHz in 1MHz steps with a low side 163 to 283 MHz LO. The IF input is mixed with a synthesized 163 - 283 MHz local oscillator signal. Up and down tune push buttons control the output frequency displayed on the LED indicators. PLL alarm lights red LED when the PLL is unlocked and goes to an open drain FET output. IF to RF gain is +3 dB. Powered by a wall power supply; connectors are BNC female. The **2002-32** includes a wall power supply and the **2002-33** takes an external power supply. Rack mount **option -R.**



2002-32, -33 Agile Test Upconverter Block Diagram and Chassis

EQUIPMENT SPECIFICATIONS*

Input Characteristics	
Input Impedance/RL	75 Ω /15db
Frequency	36 MHz center
Input Level	-10 to -20 dBm
Input 1dB/3RD ORDER	+0/+10 dBm
Output Characteristics	
Impedance/RL	50 Ω /10db
Frequency Band	199 -319 MHz
Level	fixed -12dBm, with -15 dBm in
Channel Characteristics	
Gain, max	+3 dB ±2 dB
Spurious Response	NA; output not filtered
Frequency Response	±2 dB, 199 -319 MHz; ±0.5 dB, any 10 MHz increment
Synthesizer Characteristics	
Frequency Accuracy	± 10 kHz maximum
Frequency Step	1.0 MHz minimum
Phase Noise	Suitable for 64 kB/s QPSK with 1/2 rate FEC
Controls	
Frequency Selection	PB switches w/direct frequency readout
Output Level	Potentiometer for small adjustments
Indicators	
PLL Alarm	Red LED
Remote	Yellow LED
Frequency	Four digit display shows desired output frequency in GHz
Other	
RF, IF Connectors	BNC, female
Size, Bench Top	4.7” wide X 1.75” high X 12.5” deep
Size, Rack Mount (-R)	19 inch standard chassis 1.75”high X 13.0” deep (Optional)
Power , for -32	120 ± 10% VAC, 60Hz, 20 watts max, wall mount power supply

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

CROSS TECHNOLOGIES, INC.
6170 Shiloh Road
Alpharetta, Ga. 30005
770-886-8005, FAX 770-886-7964
Visit our web site at www.crosstechnologies.com