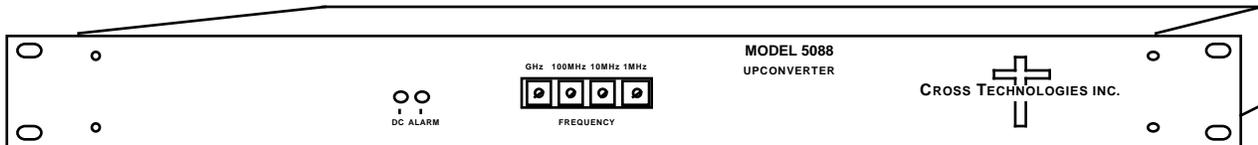


## Series 5088 5 GHz Upconverters

**5088 5 GHz Upconverters** - The Series 5088 5 GHz Upconverters convert IF to 5 GHz with no spectrum inversion, high linearity, good phase noise, flat frequency response, and 1 MHz tuning steps. For the 5088-07, the 70 MHz IF input is mixed with synthesized local oscillator (LO) signals, first to 1500 MHz and finally to 5.30 GHz. The 5088-17 has a 170 MHz IF input and 5.725 to 5.825 GHz output frequency. Other frequencies can be provided. Front panel LEDs indicate DC power is applied (green) and if a PLL alarm occurs (red). The gain is set at 10 dB. Connectors are type F female for the IF input and type N female for the RF output. The 5088 is housed in an 1 3/4" X 19" X 14" deep rack mount chassis.



**5088 UPCONVERTER**

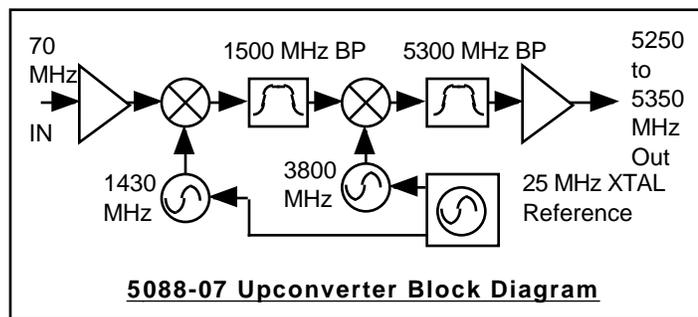
### EQUIPMENT SPECIFICATIONS\*

#### Input Characteristics

Impedance/RL	75 /15 dB
Frequency 5088-07	70 ± 20 MHz
Frequency 5088-17	170 ± 50 MHz
Input Level range	-20 to -30 dBm
Input 1 dB compression	-10 dBm

#### Output Characteristics

Impedance/RL	50 /10 dB
Frequency 5088-07	5300 ± 20 MHz
Frequency 5088-17	5775 ± 50 MHz
Output Level, max linear	-5 dBm
Output 1 dB compression	0 dBm



#### Channel Characteristics

Gain	10 ± 1.0 dB
Spurious Response	<-50 dBC in band ;< -50 dBC out of band
Frequency Response	± 1.5 dB, entire band; ± 0.5 dB, any 10 MHz increment

#### Synthesizer Characteristics

Frequency Accuracy	±10 kHz max over temp
Phase Noise (dBc/Hz)	<= -75, 10 kHz; <= -90, 100 kHz; <= -100, 1 MHz

#### Controls, Indicators

Frequency Select	BCD Switches select output center frequency in 1 MHz steps
DC Power; PLL Alarm	Green LED; Red LED

#### Other

IF; RF Connectors	Type F, female; Type N, female
Size	19 inch standard chassis 1.75"high X 14.0" deep
Power	90 - 260 VAC, 47 - 63 Hz, 30 watts max.

#### Model Numbers

5088-07	70 MHz IF input and 5300 ± 20 MHz output
5088-17	170 MHz IF input and 5775 ± 50 MHz output
Call for other frequencies	

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