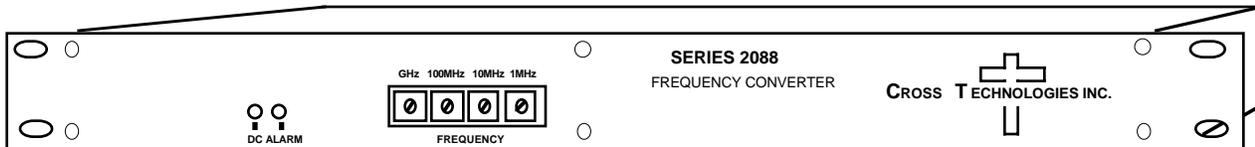


2088-24 Upconverter, 2.0 to 2.4 GHz

2088-24 Upconverter, 2.0 to 2.4 GHz - The 2088-24 Upconverter converts a 70 MHz IF signal to 2.0 to 2.4 GHz with no spectrum inversion, low group delay, and flat frequency response. The 70 MHz IF input is mixed with synthesized local oscillator (LO) signals, first to 600 MHz and finally to 2.0 to 2.4 GHz. The frequency is selected using front panel BCD switches and is selectable in 1 MHz increments. The reference oscillator is a 25 MHz oscillator. Front panel LEDs light when DC power is applied (green), a PLL alarm occurs (red). Gain is +10 dB. Connectors are BNC female for IF input and N female for the RF output. The 2088-24 Upconverter is housed in an 1 3/4" X 19" X 14" deep rack mount chassis.



2088-24 UPCONVERTER

EQUIPMENT SPECIFICATIONS*

Input Characteristics

Input Impedance/RL 75 Ω /18 dB
 Frequency 2088-24 70 ± 10 MHz
 Input Level -20 to -30 dBm
 Input 1 dB compression -10 dBm

Output Characteristics

Impedance/RL 50Ω/12 dB
 Frequency 2088-24 2.0 to 2.4 GHz
 Output 1 dB compression -5 dBm

Channel Characteristics

Gain 10 ± 1.0 dB
 Spurious Response <-45 dBC in band ; <-45 dBC out of band
 Frequency Response ± 1.0 dB, ± 10 MHz
 Group Delay, max ± 5 ns, ± 6 MHz; ± 15 ns, ± 10 MHz

Synthesizer Characteristics

Frequency Accuracy ± 25 kHz max over temp
 Tuning steps 1.0 MHz
 Phase Noise ≤-75, 10 kHz; ≤-90, 100 kHz; ≤-100, 1 MHz

Controls

Frequency BCD Switches, adjustable with a small blade screwdriver

Indicators

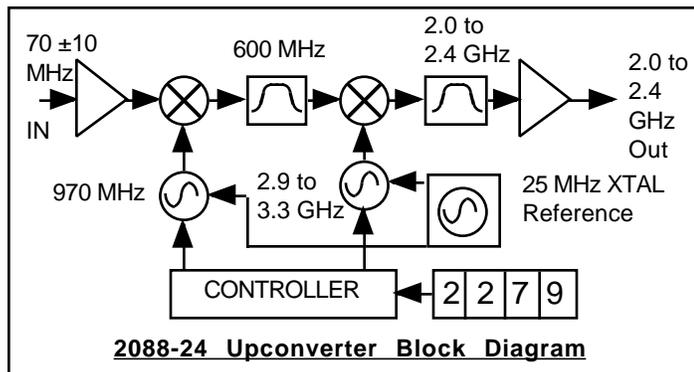
DC Power; PLL Alarm Green LED; Red LED

Other

IF, RF Connectors BNC, female; 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

2088-24 70 MHz in, 2.0 to 2.4 GHz out
 Call for other frequencies



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