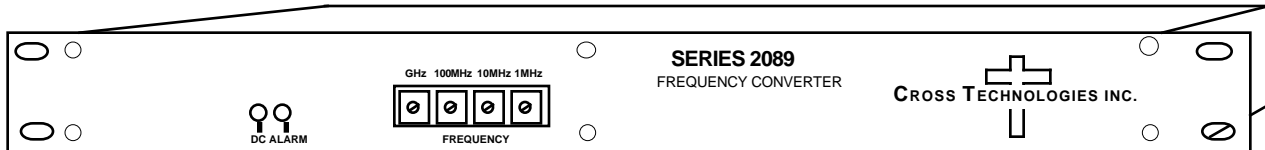


2089-24 2.0 - 2.4 GHz Downconverter

2089-24 2.0 - 2.4 GHz Downconverters - The Series 2089-24 Downconverter converts 2.0 - 2.4 GHz to a 70 MHz IF with no spectrum inversion, high linearity, good phase noise, flat frequency response, and 1 MHz tuning steps. The 2.0 - 2.4 GHz input is mixed with synthesized local oscillator (LO) signals, first to 900 MHz and finally to 70 MHz IF. 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 N female for the RF input and BNC female for the IF output. The 2089-24 is housed in an 1 3/4" X 19" X 14" deep rack mount chassis.



2089-24 DOWNCONVERTER

EQUIPMENT SPECIFICATIONS*

Input Characteristics

Impedance/RL	50 /10 dB
Frequency	2.0 to 2.4 GHz
Noise Figure, Max.	15 dB
Input Level range	-20 to -30 dBm
Input 1 dB compression	-10 dBm

Output Characteristics

Impedance/RL	75 /15 dB
Frequency	70 ± 10 MHz
Output Level, max linear	-10 dBm
Output 1 dB compression	0 dBm

Channel Characteristics

Gain	10 ± 1.0 dB
Image Rejection	> 45 dB, min; >50 dB typical
Spurious Response	<-50 dBC in band
Frequency Response	± 1.5 dB, entire band; ± 0.5 dB, any 10 MHz increment

Synthesizer Characteristics

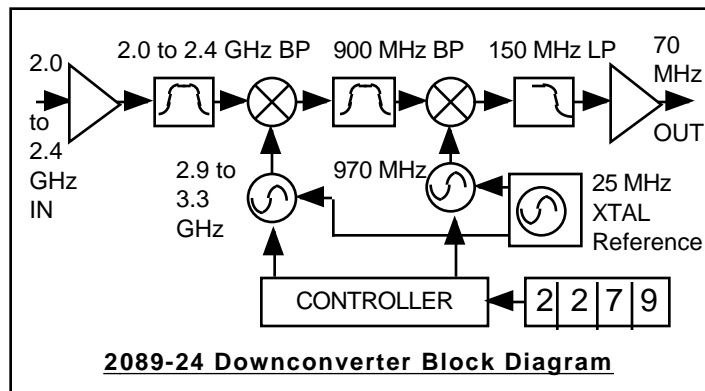
Frequency Accuracy	±25 kHz max over temp
Phase Noise (dBC/Hz)	<= -75, 10 kHz; <=-90, 100 kHz; <=-100, 1 MHz

Controls, Indicators

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

Other

IF; RF Connectors	BNC, 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.



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