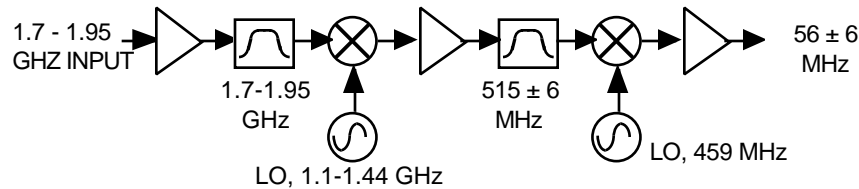


Model 2089-17 Agile Downconverter

The 2089-17 Agile Downconverter converts a 1700 to 1950 MHz signal to 56 ± 6 MHz in 1MHz steps.

EQUIPMENT DESCRIPTION

The 2089-17 Agile Downconverter converts a 1700 to 1950 MHz signal to 515 MHz in 1MHz steps with a low side 1185 to 1435 MHz first LO and then to 56 ± 6 MHz with low side 459 MHz LO. Up and down tune push buttons control the output frequency displayed on the LED indicators. Frequency selection can be remotely selected via a RS232C data input. A red LED PLL alarm lights when the PLL is unlocked and goes to an open drain FET output. A Yellow LED indicates remote operation.



2089-17 Down Converter Block Diagram

EQUIPMENT SPECIFICATIONS*

Input Characteristics 2089-17

Input Impedance/RL	75 Ω /10db
Frequency	1700 - 1950 MHz
Noise Figure	15 dB Max, 12 dB typ
Input Level, range	-25 to -60 dBm
Input 1dB/3RD ORDER	-25 / -15 dBm

Output Characteristics

Impedance/RL	75 Ω /15db
Frequency ,IF out	56 ± 6 MHz (other IF's, BW's available)
Output Spurious	<-40 dBC in band, <-25 dBC in band at low input
Level with -30dBm in	-5 dBm, ± 2 dB
Output 1dB/3RD ORDER	+5 / +15 dBm

Channel Characteristics

Gain	+25 dB ± 2 dB
Frequency Response	± 0.5 dB, 8 MHz band .

Synthesizer Characteristics

Frequency Accuracy	± 10 kHz max
Phase Noise (dBc/Hz)	≤ -75 , 10 kHz; ≤ -90 , 100 kHz; ≤ -100 , 1 MHz
Frequency Selection	1 MHz min steps
Reference Frequency	25 MHz; 10 MHz external reference TBA

Indicators

DC Power	Green LED
PLL Alarm	Red LED
Frequency	four, 7 segment LED displays

Other

RF in, IF out Connectors	F, female, F, female
Size	19" wide X 1.75" high X 13.0" deep
Power	90 to 260 VAC, 50 to 60 Hz, 30 watts

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

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