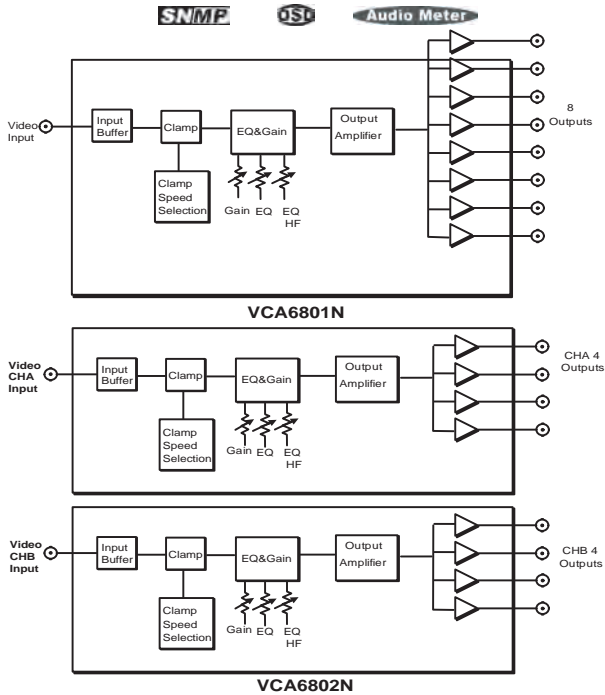


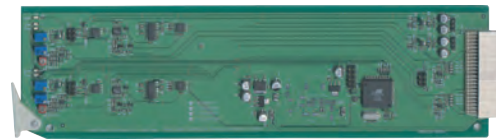
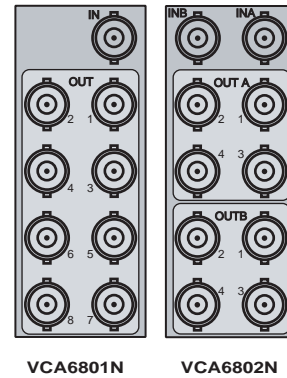
Description:

The VCA6801N and VCA6802N are analog video distribution amplifiers with equalization and clamping. Both modules have unbalanced input and can compensate cable loss of up to 100m of Belden 8281 cable loss. The clamping can help the user reject DC offset and AC disturbance. The VCA6801N / VCA6802N can also provide +/-3db gain range adjustment. The VCA6801N has one input and eight outputs; and the VCA6802N has two inputs each with four outputs, or it can set to have eight outputs via jumper.



Features:

- ▶ Analog composite and component signal with clamping
- ▶ +/-0.1dB to 8MHz
- ▶ +/-3dB gain range adjustment
- ▶ 100m (Belden 8281) continuously adjustable equalization
- ▶ 525/625 input signal detection



Specifications: Specifications are subject to change without notice

Analog Video Input

Input level	1 Vp-p nominal
Connector	BNC (IEC169-8)
Max input level	2.5 Vp-p centered @ 0 V
Input impedance	75 ohm, internal terminating
Input coupling	AC/DC selectable
Input return loss	>45 dB to 5 MHz, >40 dB to 10 MHz
Output isolation	>40 dB @ 10 MHz
Response variation	<0.1 dB @ 10 MHz
Phase match	<+/-0.2°

Analog Video Output

Number of outputs	8
Output impedance	75 ohm
Output return loss	>45 dB to 5 MHz, >40 dB to 10 MHz
Output isolation	>40 dB @ 10 MHz

Performance

Gain	-3 dB to +3 dB
Frequency response	+/-0.05 dB DC-10 MHz
Line distortion	<0.20% DC coupling
Field distortion	<0.20% DC coupling
Differential gain	<0.15%
Differential phase	<0.15°
DC offset	<25mV
EQ response	+/-0.05 dB to 5 MHz, +/-0.15 dB to 10 MHz, 0-100 m Belden
Clamp level	<+/-25mV
Clamp delay	3 lines for Fast, 7 lines for Slow
S/N	>70 dB

Power Consumption

Power	VCA6801N: <1.5W; VCA6802N: <2.5W
Positive rail	VCA6801N: 150mA; VCA6802N: 250mA
Negative rail	VCA6802N: 500mA; VCA6802N: 150mA

Ordering Information:

VCA6801N Analog video equalizing and clamping distribution amplifier 1x8

VCA6802N

Dual analog video equalizing and clamping distribution amplifier 2-1x4 or set 8 outputs via jumper