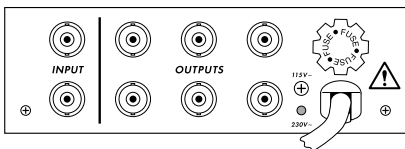
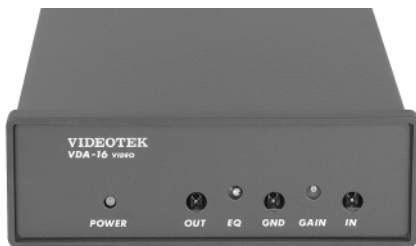


DISTRIBUTION AMPLIFIERS

VDA-16/16A VIDEO DISTRIBUTION AMPLIFIER



FEATURES

- One looping video input
- Six isolated video outputs
- Front panel output level adjustment
- Cable equalizer front panel adjustment (400 ft. 8281) (VDA-16 only)

SPECIFICATIONS: VIDEO

INPUT IMPEDANCE:

Hi-Z looping

INPUT RETURN LOSS:

≤-40 dB,
50 Hz to 5 MHz

MAXIMUM INPUT LEVEL:

2V p-p

OUTPUT IMPEDANCE:

75Ω, source terminated

MAXIMUM OUTPUT LEVEL:

2V p-p, 50 Hz to 10 MHz,
75Ω load

GAIN:

Continuously adjustable ±6 dB

FREQUENCY RESPONSE:

±0.2 dB, 50 Hz to 10 MHz

CABLE EQUALIZATION:

(VDA-16 only)
Adjustable for up to 400 feet of 8281

DIFFERENTIAL GAIN:

≤0.2%, 10% to 90% APL

DIFFERENTIAL PHASE:

≤0.2°, 10% to 90% APL

TILT:

≤0.5%

OVERSHOOT AND RINGING:

≤0.5%

OUTPUT ISOLATION:

40 dB minimum, 50 Hz to 5 MHz
35 dB minimum, 50 Hz to 10 MHz

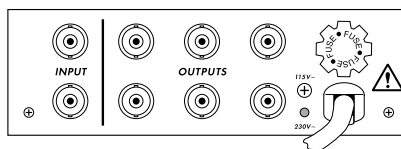
MAXIMUM DC ON INPUT:

±3V with a 1V p-p signal

THROUGHPUT DELAY:

15 ns typical

VDA-16WB WIDE BAND VIDEO DISTRIBUTION AMPLIFIER



FEATURES

- 40MHz video bandwidth
- One looping video input
- Front panel output level adjustment
- Cable equalizer front panel adjustment (1000 ft. 8281)

SPECIFICATIONS: VIDEO

INPUT IMPEDANCE:

Hi-Z looping

INPUT RETURN LOSS:

≤-40 dB, DC to 10 MHz

MAXIMUM INPUT LEVEL:

2V p-p

OUTPUT IMPEDANCE:

75Ω, source terminated

OUTPUT DC COMPONENT:

0 ±100 mV DC

MAXIMUM OUTPUT LEVEL:

2V p-p

GAIN:

Continuously adjustable ±6 dB

FREQUENCY RESPONSE:

±0.25 dB, DC to 20 MHz
±0.5 dB, 20 to 40 MHz

CABLE EQUALIZATION:

Adjustable for up to 1000 feet of 8281:
+0 dB, -1.0 dB, DC to 20 MHz
+0 dB, -2.0 dB, DC to 30 MHz
+0 dB, -5.0 dB, DC to 40 MHz

DIFFERENTIAL GAIN:

≤0.15%, 10% to 90% APL. All outputs terminated.

DIFFERENTIAL PHASE:

≤0.15°, 10% to 90% APL.

All outputs terminated.

TILT:

≤0.5%

OVERSHOOT AND RINGING:

≤0.5%

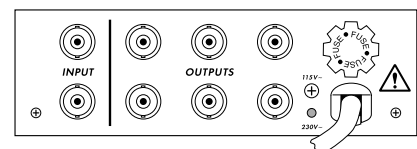
HUM AND NOISE:

-60 dB below 1V p-p unity gain

OUTPUT ISOLATION:

40 dB minimum, DC to 10 MHz

PDA-16 PULSE DISTRIBUTION AMPLIFIER



FEATURES

- One looping pulse input
- Six pulse outputs

SPECIFICATIONS: PULSE

INPUT IMPEDANCE:

Hi-Z looping

INPUT RETURN LOSS:

≤-40 dB

INPUT LEVEL:

2V to 8V p-p

OUTPUT IMPEDANCE:

75Ω, source terminated

OUTPUT LEVEL:

4V p-p ±100 mV into
75Ω load

OUTPUT ISOLATION:

40 dB minimum

RISE/FALL TIME:

140 ns ±20 ns

DELAY TIME :

100 ns typical

OVERSHOOT AND RINGING:

1% maximum

HUM:

55 dB below 4V p-p

TILT:

1% maximum