

## VDA-220, 20 MHz, Field DA for Video, Pulse, Subcarrier and AES/EBU Digital Audio with 1500 Ft. Equalizer for 8281 & RG-59U cable & Back Porch Clamp, 1x8, Modular Card

The VDA-220 is an economical high performance distribution amplifier ideal for applications where clamping and cable equalization are required. The DA is ideal for very long cable runs of up to 1500 feet to monitors, for the distribution of color black burst reference signals and for studio to studio distribution of video signals where ground differences or DC off-sets may exist. The clamp circuit in the FAST mode will remove differential mode hum from the video signal on a line by line basis. The DA will cancel up to 60 Volts of common-mode hum. The units is also ideal for field, remote, sporting and ENG field applications where multiple cable types may be in use. The equalization feature compensates for up to 1500 feet of cable losses for two type of cable. The user can switch select cable equalizers for either 8281 and RG-59U or any two types of cable. Please specify the cable type to be used. The unit includes a differential loop-through input and eight outputs with a front panel video presence LED. The full line VDA-200 Distribution Amplifiers support the 75 Ohm coaxial distribution of AES/EBU digital audio signals. The modular design is compatible with the MULTIDYNE UTIL-200 and the Grass 8500/8800/8900 trays.

**Specifications:** **Input Type:** 2 BNC Loop-through. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz. **Output:** Type: 8 BNC. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz **Performance: Bandwidth,** 3 dB: 22 MHz. **Frequency Response,** 10 Hz to 5 MHz: +/-0.025 dB; 5 MHz to 8 MHz: +/-0.05 dB; 8 MHz to 10 MHz: +/-0.2 dB; 18 MHz: -1 dB. **Clamp type:** Back-porch, sampling, feedback. **Equalization Range:** 8281 type cable 0 - 1500 Ft with single control; RG-59U type cable 0 - 1000 Ft with single control. **Equalization Accuracy:** 10 Hz to 5 MHz: +/- 0.05 dB; 5 MHz to 8 MHz: +/- 0.10 dB, 8 MHz to 10 MHz: +/- 0.20 dB. **Differential Gain:** <0.1 %; **Differential Phase:** <0.1°. **Line or Field Tilt:** <0.5 %. **Signal to Noise:** > 80 dB. **Common Mode Rejection (60 Hz):** >66 dB. **Return Loss, to 5 MHz:** >42 dB. **Power Consumption, MAX:** 2 Watts

## VDA-8505, 20 MHz, Long Range Field DA for Video, Pulse, Subcarrier and AES/EBU Digital Audio with 3500 Ft. Equalizer for 8281 & RG-59U cable & Back Porch Clamp, 1x8, Modular Card

The VDA-8505 is an economical high performance distribution amplifier ideal for applications where clamping and long range cable equalization are required. The DA is ideal for long range cable runs of up to 3500 feet to monitors, for the distribution of color black burst reference signals and for studio to studio distribution of video signals where ground differences or DC off-sets may exist. The clamp circuit in the FAST mode will remove differential mode hum from the video signal on a line by line basis. The DA will cancel up to 60 Volts of common-mode hum. For **severe hum** problems, the **VDA-8505 is optionally available with an Isolation Transformer; option –TRANS.** The rack-mounting kit for 5 transformers is option –RMTRANS. The units is also ideal for field, remote, sporting and ENG field applications where multiple cable types may be in use. The equalization feature compensates for up to 3500 feet of cable losses for two type of cable. The user can switch select cable equalizers for either 8281 and RG-59U or any two types of cable. The equalizer has switch selectable 1000 foot and 2000 foot fixed equalization stages and a 1000 foot adjustable stage for fine adjustments. Please specify the cable type to be used. The unit includes a differential loop-through input and eight outputs with a front panel video presence LED. The full line VDA-200 Distribution Amplifiers support the 75 Ohm coaxial distribution of AES/EBU digital audio signals. The modular design is compatible with the MULTIDYNE UTIL-200 and the Grass 8500/8800/8900 trays.

**Specifications:** **Input Type:** 2 BNC Loop-through. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz. **Output:** Type: 8 BNC. **Impedance:** 75 Ohms. **Return Loss:** > 40 dB up to 5 MHz **Performance: Bandwidth,** 3 dB: 22 MHz. **Frequency Response,** 10 Hz to 5 MHz: +/-0.025 dB; 5 MHz to 8 MHz: +/-0.05 dB; 8 MHz to 10 MHz: +/-0.2 dB; 18 MHz: -1 dB. **Clamp type:** Back-porch, sampling, feedback. **Equalization Range:** 8281 type cable 0 - 3500 Ft with single control; RG-59U type cable 0 - 3000 Ft with single control. **Equalization Accuracy:** 10 Hz to 5 MHz: +/- 0.05 dB; 5 MHz to 8 MHz: +/- 0.10 dB, 8 MHz to 10 MHz: +/- 0.20 dB. **Differential Gain:** <0.1 %; **Differential Phase:** <0.1°. **Line or Field Tilt:** <0.5 %. **Signal to Noise:** > 80 dB. **Common Mode Rejection (60 Hz):** >66 dB. **Return Loss, to 5 MHz:** >42 dB. **Power Consumption, MAX:** 2 Watts