

VEA6800+D

# 1x8 Analog Video Equalizing Distribution Amplifier

The VEA6800+ is an analog video equalizing distribution amplifier (DA) built for use with the 6800+™ modular processing platform.

## Features

- One differential input
- Eight outputs with dual slots back module
- DC input coupling
- Looping and internal terminating are selectable with dual slot back module
- $\pm 3$  dB gain adjustable range
- > 50 MHz bandwidth
- Continuous cable equalizing up to 1000 ft (300 m) Belden 8281 cable, or equivalent
- Hot swappable
- Module presence reporting via Imagine® CCS Navigator™ control system

## Specifications

INPUTS	
Input Level	1 V pk-pk nominal
Maximum Input Level	2.5 V pk-pk centered @ 0 V
Input Impedance	75 ohms, looping or internal terminating selectable
Input Coupling	DC-, AC-selectable
Input Return Loss	>45 dB to 5 MHz, >40 dB to 10 MHz
CMRR	>65 @ 10 kHz

OUTPUTS	
Number of Outputs	8 (D back module), 4 (S back module)
Output Impedance	75 ohms
Output 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	< $\pm 0.2^\circ$

PERFORMANCE	
Gain	-3 to 3 dB
Frequency Response	<±0.05 dB DC-10 MHz, <±0.2 dB to 20 MHz, -3 dB >50 MHz
Line Tilt	<0.20% DC coupling
Field Tilt	<0.20% DC coupling
Differential Gain	<0.15%
Differential Phase	<0.15°
DC Offset	<25 mV
EQ Response	<±0.05 dB to 5 MHz, <±0.15 dB to 10 MHz, 0-300 m Belden 8281
S/N	>70 dB by VM 700
Propagation Delay	15 ±1.0 ns
Performance Temperature	41° to 104° F (5° to 40° C)
Operating Temperature	32° to 122° F (0° to 50° C)
Power Dissipation	<2 W

## Ordering Information

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## Images/Diagrams

