

DTL MiniBlox™

4500 Analogue VDA



Description

The 4500 is a broadcast quality analogue video distribution amplifier. It has a looped input and three outputs. There are controls to adjust the gain and equalisation, as well as a button to reset the gain and equalisation to standard for minimum cable length. The unit will equalise up to 450m of cable.

It is housed in an extremely compact and rugged aluminium case ideally suited to both studio and portable applications.

Features

- Differential looping input and 3 outputs
- Inherently good CMRR for hum reduction
- Signal presence LED
- Gain & equalisation adjustment for up to 450m of cable
- Control reset button for simple operation
- Compact and rugged design
- Locking connector for PSU

Controls

- Equalisation control
- Gain control
- Control enable/reset button

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Specifications

Analogue input

Impedance	High impedance bridging 75Ω termination
Connector	75Ω BNC
Common mode signal	>5V peak to peak
CMRR	>60dB to 15kHz, >40dB @ 5.5MHz
Return loss	>36dB to 5.5MHz
Cable equalisation	0 - 450m (Belden 8281)

Analogue output

Number	Looping input and 3 outputs
Connector	75Ω BNC
Signal level	1V peak to peak
DC offset	≤±20mV
Return loss	>46dB to 5.5MHz
Isolation	>70dB to 5.5MHz
Electrical length	11nS Eq set to 0m, 7nS Eq set to 150m
Consistency	Typically <0.5nS

Performance

Gain range	±3dB
Frequency response	±0.1dB to 20MHz, ±0.25dB to 30MHz, -1dB at 50MHz

Pulse to bar ratio	<0.2%K
Bar slope	<0.2%K
Pulse slope	<0.2%K

Y/C gain inequality	<0.5%
Y/C delay inequality	≤±1nS
Isolation	>70dB to 5.5MHz
Differential gain	<0.1% (12.5-87.5% APL)
Differential phase	<0.1° (12.5-87.5% APL)

Power

Voltage	6-12V DC
Current	150mA
Power connector	Locking 2.5mm jack connector (centre +ve)

Other

LED	Power only red, signal present, green
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Temperature range	0°C to 40°C
Dimensions	63.5mm x 84mm x 30mm (excluding connectors)
Weight	160g

Ordering information

4500	Analogue VDA	4006	Desktop power supply with IEC320 C14 inlet
4010	1U rack mounting frame for up to 5 units including PSU		

We reserve the right to change technical specifications without prior notice. E&OE.

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