

HUM REJECTION UNIT WITH EQUALISATION

TYPE BH133 (OPTO-COUPLED)

DATA SHEET

- *Coax input / Coax or Twisted Pair output*
- *13 channels*
- *Opto-coupled circuits for Hum Rejection*
- *Overall gain control from -3dB to +6dB*



Application

With the BH133 inserted into the cable runs the input coaxial cables are isolated from the output coaxial cables. This is achieved using an Opto-coupler on each circuit board.

The isolation this provides enables the total rejection of any longitudinal hum caused by circulating earth currents in the cables up to a maximum of 90 volts peak to peak. This prevents the appearance of Hum Bars on the video monitor.

Each channel has three lift controls: Gain, High Frequency Lift and Medium Frequency Lift. For short to medium cable runs each of the thirteen BH133 circuit boards may be used as a basic Line Corrector when used in conjunction with a Launch Amplifier.

Each of the thirteen channels has two outputs - the first being a 75 ohm BNC socket for coax cable and the second a spring-loaded connector for an 150 ohm twisted pair output.

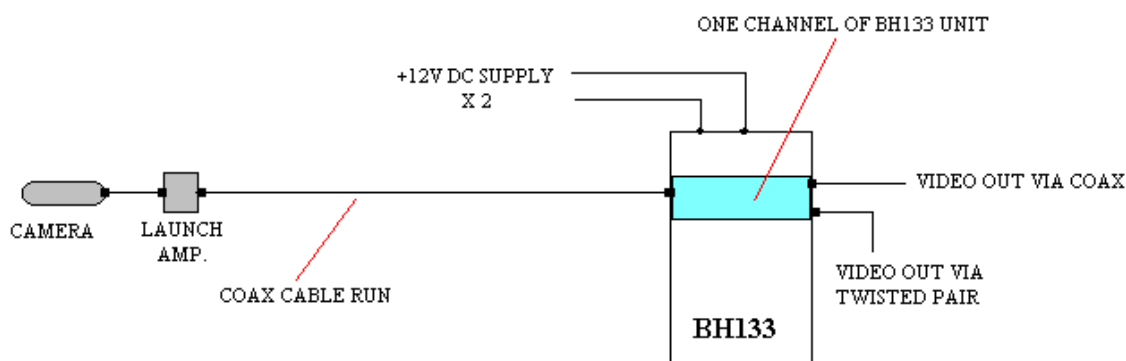
Addlestone Electronics Ltd.

DESIGNED AND MANUFACTURED IN UK

TECHNICAL DATA

BH133

INPUT SIGNAL REQUIREMENTS	<i>Composite video using colour / monochrome signals or other wide band signals within a frequency bandwidth of 30Hz to 5MHz.</i>
INPUT SIGNAL AMPLITUDE	<i>Nominal 1 volts peak to peak.</i>
OUTPUT SIGNAL AMPLITUDE	<i>Nominal 1 volt peak to peak (unbalanced) or 2 volts peak to peak (balanced).</i>
AT UNITY GAIN	<i>Differential Phase < 3 degrees / Differential Gain < 3%.</i>
INPUT IMPEDANCE	<i>75 ohms.</i>
INPUT / OUTPUT CONNECTORS	<i>75 ohm BNC connectors for unbalanced inputs. 75 ohm BNC connectors for unbalanced outputs / Spring-loaded terminals for balanced 150 ohm twisted pair outputs.</i>
ELIMINATION OF LONGITUDINAL HUM	<i>Automatic rejection to a maximum of 90 volts peak to peak.</i>
GAIN CONTROL	<i>Adjustable between -3dB and +6dB.</i>
HIGH FREQUENCY LIFT	<i>Adjustable between -3dB and +6dB.</i>
MEDIUM FREQUENCY LIFT	<i>Adjustable between -1dB and +6dB.</i>
OUTPUT BALANCE CONTROL	<i>For twisted pair outputs only - these are factory set but may be adjusted if required.</i>
POWER REQUIREMENTS	<i>+12 Volts DC (Two regulated supplies included with unit).</i>
POWER CONSUMPTION	<i>Approximately 35 Watts.</i>
OPERATING TEMP. RANGE	<i>-10°C to +40°C.</i>
WEIGHT OF UNIT	<i>4.7 Kg</i>
DIMENSIONS OF EQUIPMENT	<i>Width 483 mm (19 inch) Height 133 mm (3U) Depth 310 mm (excluding connectors)</i>



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