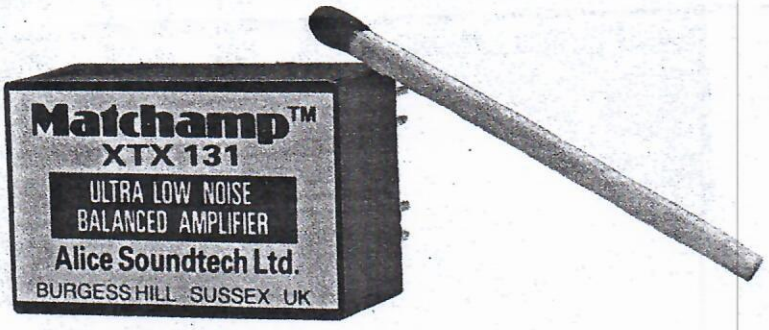
Alice®

MATCHAMP™ XTX131 MICROPHONE AMPLIFIER MODULE

"PROBABLY THE QUIETEST MIC AMP IN THE WORLD"



XTX 131 MODULE

MATCHAMP
MIC-AMP CARD

The Matchamp XTX131 is a very high performance, state of the art balanced microphone amplifier module which achieves a noise performance which is typically less than 0.5dB from theoretical Johnsons noise when used with 150-200 ohm microphones.

The device achieves this high performance by eliminating the need to employ an input transformer and offers improved frequency response, noise performance, distortion, signal handling and common mode rejection ratio over typical transformer microphone input stages.

The improvement in common mode rejection makes the device particularly useful for location recording and outside broadcasts where high levels of interference are common. The device achieves 40 to 50dB better CMRR than most transformer designs at high audio and low RF frequencies. An RF filter circuit is incorporated within the device which gives further interference protection.

The unit is an extremely small (30 × 20 × 15mm) PCB mounting module with 0.1" spaced pins.

The extremely low self noise of the Matchamp XTX131 will find particular application when used with digital recorders which do not tend to mask mic-amp noise in the same way that many of their analogue predecessors have in the past.

The XTX131 replaces the earlier XTX129, and now incorporates internal protection against phantom power, resulting in fewer external components.

The Matchamp XTX131 is also available as a ready-built and tested mic amp card, with connections via an 8 pin Molex type connector (mating connector and 4K7 reverse log gain pot supplied). Gain range 10dB to 60dB. Dimensions 55mm (w) × 38mm (d) × 20mm (h).

Technical Specification:-

Supply voltage range: ±15 to ±20DC
Current consumption (typical): 16mA per rail
Maximum input level: 24dBu
Maximum output level: 23dBu
Minimum load impedance: 600 ohms
Performance at 60dB gain with 150 ohms source and ±18V supply:
Relative input noise: −131.3dB (30Hz-15kHz)
Common mode rejection ratio: 105dB at 10kHz
Distortion at 0dBu output: 0.006% THD
Dimensions (XTX131): 30mm (w) × 20mm (d) × 15mm (h).

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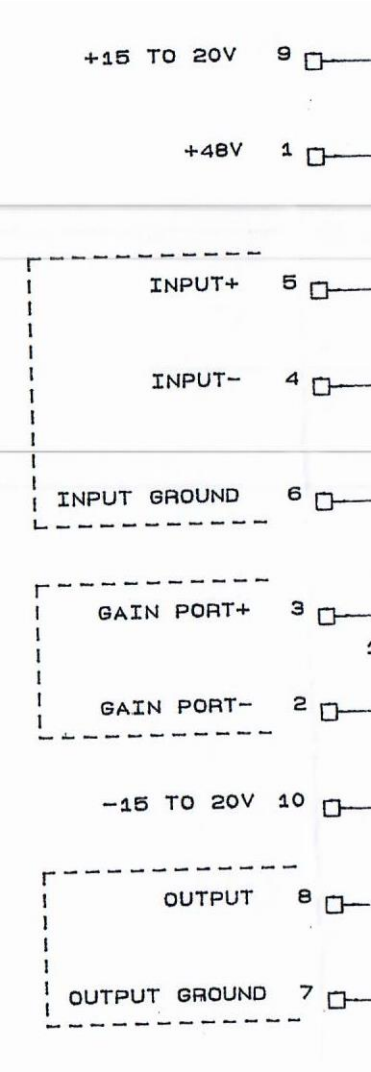
+15 TO 20V 9
+48V 1
INPUT+ 5
INPUT- 4
INPUT GROUND 6
GAIN PORT+ 3
GAIN PORT- 2
-15 TO 20V 10
OUTPUT 8
OUTPUT GROUND 7