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**Manufacture & Consultancy:**

Custom Electronics, Printed Circuit Boards,  
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### Intercom Microphone

#### Mic-0db

The Intercom Mic. was designed for mounting in an intercom housing, that is why the board is built in a circle of 48mm dia, but as shown here, it can be printed with mounting holes for mounting in a console or separate case. The full size of this board is 48mm wide, 78mm long with mounting holes on the centre line at 60mm centres.



In operation, this Mic operates from a single supply voltage of 18V to 32V, which covers the usual +24V Studio supply. While this is only a single rail device it provides a full balanced output to suit standard Intercom level of 0dbm, while maintaining L1 & L2 at 0V DC to prevent clicks when switching. This can be teamed up with our GPA-1.5 monitor amplifier to present a full intercom

system, the GPA-1.5 provides electronic muting on its board.

The maximum output of this board is +18.5dbm at the onset of clipping, with the volume control set to maximum, an input of -59dbu unbalanced will give +7dbm output, while at minimum gain the output is -51.5dbm from -59dbu unbalanced input, with the gain set at mid point the on board, the electret mic can deliver an output of 0dbm from an average operator.

The frequency response of the board takes into account, that the small speakers normally operated with this type of equipment, do not have a good base response, hence the roll off of 1db at 300Hz and 3db at 164Hz. Typical noise output is -45db below 0dbm with the input open circuit, while the distortion is <0.4% with a band pass of 400Hz to 15kHz and <2% wide band. Output impedance is approximately 44 ohms.

**Call J.B. Sound Industries Pty. Ltd to discuss your requirements.**

**(02) 9750-4372, Fax & email available.**