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Manufacture & Consultancy:

Custom Electronics, Printed Circuit Boards,
Broadcast Equipment and Controlled Evacuation Systems

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DBA-2 Case 104mm x 117mm, Mtg. 132mm Cts., Lugs 142mm.

DBA-2, evolved from our DBA-xx\1, (which was designed to mount inside other equipment, CD player, Cassette Recorder etc.). DBA-2 is the same circuit on a different PCB layout to suit our Case-1.

This Balancing Amp. is more than just a Balancing Amp, as it has balanced input to balanced output, with adjustable gain from 0 to 24.5db to a balanced output. This allows for an unbalanced output of +8dbu from an input of -10dbu balanced or unbalanced, for unbalanced input the active line is connected to L1 and the screen is connected to E, L2 should be connected to E. For unbalanced output either L1 and E or L2 and E may be used, **DO NOT CONNECT THE UNUSED OUTPUT TO E**, both outputs may be used simultaneously but they will be out of phase with each other, L1 in to L1 out is in phase, L1 in to L2 out is 180° out of phase. Below left is a picture of a DBA-2 on our test bench.

Typical Specifications taken from unit dated April 12, 2001

Frequency response: (reference -10 unbalanced in to +8 balanced out)

LEFT:	RIGHT:
-6.0db @ 2.1Hz	-6.0db @ 2.2Hz
-3.0db @ 2.3Hz	-3.0db @ 2.4Hz
-2.0db @ 3.8Hz	-2.0db @ 3.7Hz
-1.0db @ 6.5Hz	-1.0db @ 3.8Hz
-0.5db @ 9.9Hz	-0.5db @ 6.5Hz
0.0db @ 1kHz	0.0db @ 1kHz
-0.5db @ 13.9kHz	-0.5db @ 14.1kHz
-1.0db @ 20.4kHz	-1.0db @ 20.4kHz
-2.0db @ 30.2kHz	-2.0db @ 30.8kHz
-3.0db @ 39.2kHz	-3.0db @ 40.2kHz
-6.0db @ 70.2kHz	-6.0db @ 71.6kHz

Maximum Input +21dbm, Maximum Output +27dbu or +26.25dbm.
At Maximum Gain, -10dbu input will give +8.5dbu unbalanced output or +14.5dbu balanced output.
Noise: reference to -10 input, +8 balanced output, input open circuit -78db left, -80db right.
Noise & Distortion: left & right were equal, @ 100Hz <0.035%, @1KHz <0.035%, @ 10KHz <0.04% wide band.
With both channels driven to +8dbu output Positive & Negative DC Supply were <28mA, while at +8dbm the DC Supply rose to <30mA.
The Power supply used for the above tests was the DC output of our T3 Supply.
These Amplifiers will operate from split rail AC or DC from 18v to 30v per rail.
The input of each amplifier has a selectable jumper for 600 ohm termination.

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Call J.B. Sound Industries Pty. Ltd to discuss your requirements.
(02) 9750-4372, Fax & email available.