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**Manufacture & Consultancy:**

Custom Electronics, Printed Circuit Boards,  
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**SSI/1 & MSI/1**

**Stereo Satellite Interface & Mono Satellite Interface:** These are a redesign of the previous SSI & MSI the difference is a new layout of the PCB to improve performance. The typical specifications are from a unit constructed on 20-05-2002.

These units were designed to interface to Optus Satellite Receivers to raise the unbalanced output of -10dbu to +8dbu/m Broadcast Standard, these Amplifiers have a special input circuit that is approved by Optus for connection to their Satellite Receivers.

They can be used for many **fixed gain applications**, to make the transition from unbalanced to balanced or as a balanced to balanced gain make up amplifier with 18db gain. With a 44 ohm output they may feed a 600 ohm line or a bridging load operating unterminated. The unterminated gain is 18db while the terminated gain is 17.4db this variation is caused by the two 22 ohm output limit resistors.

**Typical Specifications:**

All measurements are referred to a +8dbu output except where stated otherwise.

	<u>LEFT/MONO</u>	<u>RIGHT</u>
Noise with input O/C & floating:	<-58	<-58
Noise with 20kHz Hi cut filter, input O/C & floating:	-70	<-77
Distortion Wide Band:	0.15%	0.155%
Distortion with 20kHz Hi Cut filter:	0.06%	0.058%

Note that Wide Band Distortion was influenced by out of band noise.

Maximum input before clipping +9dbm, resulting in an output of +27dbu, giving a nominal headroom of 19db.

Phase was 0° between channels from <2Hz to >300kHz, these amplifiers are AC coupled on the input.

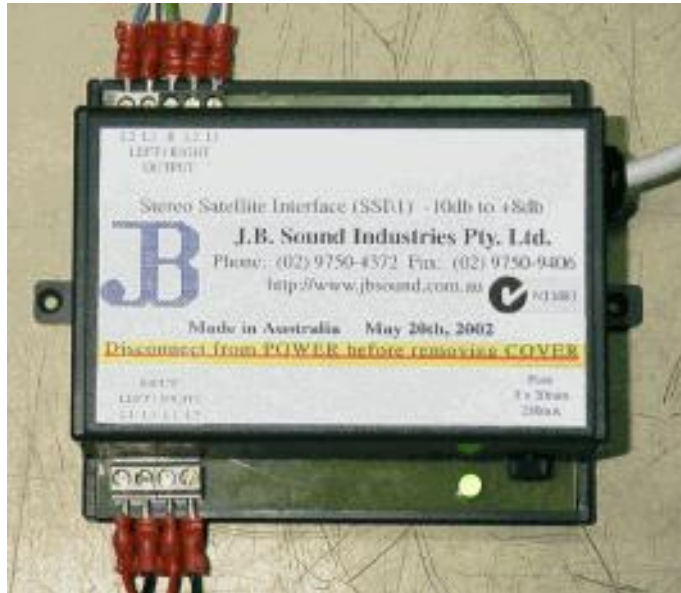
Frequency response points of interest:

3.0Hz	-3db	-3db
4.3Hz	-2db	-2db
6.5Hz	-1db	-1db
1kHz <b>reference</b>	0db	0db
27.8kHz	-1db	-1db
40.4kHz	-2db	-2db
50.6kHz	-3db	-3db

Output termination did not affect the frequency response, only a 0.6db change in level as stated above.

Below is pictured the Stereo version, the Mono version is housed in the same case using the same power supply and PCB but only the common and left channel components are fitted.

The standard unit has 18db gain but these units can be made to other gains on special order.



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