

## 200W SUB-BOTTOM AMPLIFIER SPECIFICATIONS

| SPECIFICATIONS           |                                                                                                                                                                           |                                                                                                                                          |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal Power            |                                                                                                                                                                           | 240 VA                                                                                                                                   |
| Active Power             |                                                                                                                                                                           | 200 W                                                                                                                                    |
| Max Power Scalability W  |                                                                                                                                                                           | 0-200 W                                                                                                                                  |
| Amp Gain                 |                                                                                                                                                                           | 30                                                                                                                                       |
| Max Duty Cycle           |                                                                                                                                                                           | 15%                                                                                                                                      |
| Amp Technology           |                                                                                                                                                                           | Class B                                                                                                                                  |
| Amp Architecture         |                                                                                                                                                                           | Linear H Bridge                                                                                                                          |
| INPUT                    |                                                                                                                                                                           |                                                                                                                                          |
| Input Voltage Nominal    |                                                                                                                                                                           | 48 VDC                                                                                                                                   |
| Input Voltage Range      |                                                                                                                                                                           | 46 to 56 VDC @ 100% load                                                                                                                 |
| Peak Current             |                                                                                                                                                                           | 8 Amps @ 48 V                                                                                                                            |
| Average Current          |                                                                                                                                                                           | Depends on pulse width and rate                                                                                                          |
| Efficiency               |                                                                                                                                                                           | 60%                                                                                                                                      |
| Input Frequency          |                                                                                                                                                                           | 500 Hz – 24 kHz                                                                                                                          |
| Input Impedance          |                                                                                                                                                                           | > 1000 ohms (transformer isolated)                                                                                                       |
| OUTPUT                   |                                                                                                                                                                           |                                                                                                                                          |
| Output Voltage           |                                                                                                                                                                           | 88 V P-P ± 1%                                                                                                                            |
| Output Frequency         |                                                                                                                                                                           | 500 Hz – 24 kHz                                                                                                                          |
| Wave form                |                                                                                                                                                                           | Gaussian, Wide band                                                                                                                      |
| Output Impedence         |                                                                                                                                                                           | 4 Ohms                                                                                                                                   |
| GENERAL SPECIFICATIONS   |                                                                                                                                                                           |                                                                                                                                          |
| Protection               |                                                                                                                                                                           | Power supply line fused (FB 250 V, 5 A)                                                                                                  |
| CONNECTIONS              |                                                                                                                                                                           |                                                                                                                                          |
| Input Connector          |                                                                                                                                                                           |                                                                                                                                          |
| J1-1                     | Input + (Transformer Isolated)                                                                                                                                            |                                                                                                                                          |
| J1-2                     | Input –                                                                                                                                                                   |                                                                                                                                          |
| J1-3                     | Enable (+5V will enable Amp)                                                                                                                                              |                                                                                                                                          |
| J1-4                     | Enable Common                                                                                                                                                             |                                                                                                                                          |
| Power Connector          |                                                                                                                                                                           |                                                                                                                                          |
| J2-1                     | +48VDC In                                                                                                                                                                 |                                                                                                                                          |
| J2-2                     | 48 VDC Common                                                                                                                                                             |                                                                                                                                          |
| Output Connector         |                                                                                                                                                                           |                                                                                                                                          |
| J3-1                     | Output A                                                                                                                                                                  | Outputs are not isolated and should not be connected to other parts of the circuit. They should be connected directly to the transducer. |
| J3-2                     | Output B                                                                                                                                                                  |                                                                                                                                          |
| MECHANICAL SPECIFICATION |                                                                                                                                                                           |                                                                                                                                          |
| Net Weight               |                                                                                                                                                                           | 150 g                                                                                                                                    |
| Dimensions (W x H x D)   |                                                                                                                                                                           | 91.4 x 55.9 x 45.7 mm                                                                                                                    |
| ENVIRONMENTAL DATA       |                                                                                                                                                                           |                                                                                                                                          |
| Working Temperature      |                                                                                                                                                                           | 0 °C to 60°C                                                                                                                             |
| Relative Humidity        |                                                                                                                                                                           | 10% to 95% non condensing                                                                                                                |
| Notes                    |                                                                                                                                                                           |                                                                                                                                          |
| 1.                       | The Enable input should only be enabled during pulse output. This will reduce power dissipation but is not required.                                                      |                                                                                                                                          |
| 2.                       | The output stage is an “H” bridge and is not isolated from the rest of the circuit. It should be connected directly to the transducer, which has an internal transformer. |                                                                                                                                          |
| 3.                       | Although the amplifier has current limited outputs for protection, it is not protected from excessive power dissipation, or improper output connections                   |                                                                                                                                          |

J3- Output

