

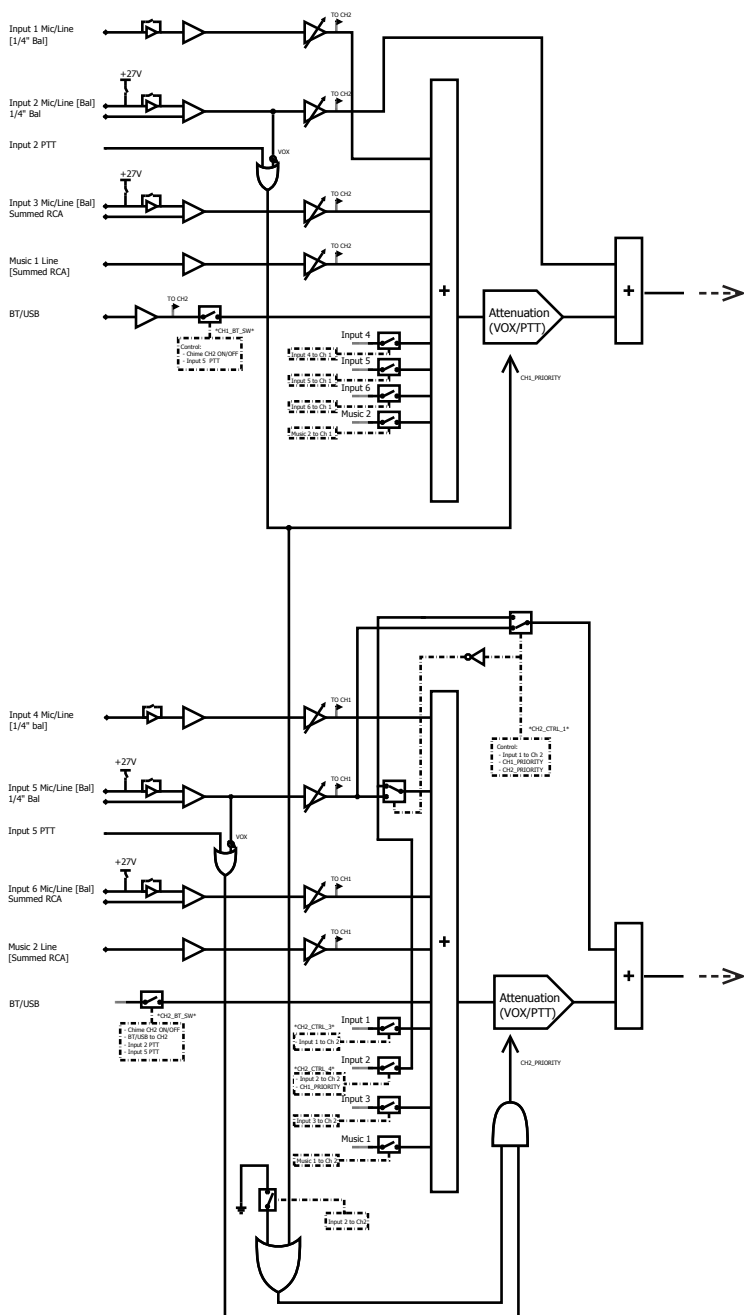
## Appendix A: Preliminary Performance Specifications

| Performance                                                                                                          | VMA160                                                                                                            | VMA1120                                  | VMA1240                                  | VMA260                                    | VMA2120                                  |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|-------------------------------------------|------------------------------------------|
| <b>Max Output Power per Channel</b><br>into 4 $\Omega$ or 8 $\Omega$ ; 1kHz, $\leq$ 0.5% THD                         | 60W                                                                                                               | 120W                                     | 240W                                     | 60W                                       | 120W                                     |
| <b>Insertion Loss</b><br>(70V & 100V outputs)                                                                        | 1 dB maximum                                                                                                      |                                          |                                          |                                           |                                          |
| <b>Number of Input Channels</b>                                                                                      | 5                                                                                                                 | 5                                        | 5                                        | 8                                         | 8                                        |
| <b>Number of Output Channels</b>                                                                                     | 1                                                                                                                 | 1                                        | 1                                        | 2                                         | 2                                        |
| <b>Tone Controls</b><br>(Bass and Treble non-detented potentiometers on each channel)                                | Bass +/-14dB @ 50Hz<br>Treble +/-14dB @ 10kHz                                                                     |                                          |                                          |                                           |                                          |
| <b>Input Sensitivity</b><br>(to obtain full rated power into 8 $\Omega$ load)                                        | Mic Input: 5.5mV <sub>RMS</sub><br>Line Input: 1.3V <sub>RMS</sub><br>RCA Input (stereo in): 130mV <sub>RMS</sub> |                                          |                                          |                                           |                                          |
| <b>Frequency Response</b><br>(measured at 2.83V <sub>RMS</sub> into rated load impedance at any output)              | 4/8 $\Omega$ Output: 20Hz - 20kHz, +/-2dB<br>70V/100V Outputs: 80Hz - 15kHz +/-3dB                                |                                          |                                          |                                           |                                          |
| <b>Total Harmonic Distortion (THD)</b><br>(measured at 2.83V <sub>RMS</sub> into rated load impedance at any output) | Power Amp Output: <0.5%, 20Hz - 20kHz                                                                             |                                          |                                          |                                           |                                          |
| <b>Signal-to-Noise Ratio</b><br>(Ref. Rated Power, mixer levels @ min., master volume @ max. A-weighted)             | >76dB                                                                                                             |                                          |                                          |                                           |                                          |
| <b>Input Impedance</b><br>(nominal)                                                                                  | Mic: 400 $\Omega$<br>Line: 20 k $\Omega$ (balanced)<br>RCA: 50 k $\Omega$                                         |                                          |                                          |                                           |                                          |
| <b>Phantom Power</b>                                                                                                 | 27VDC                                                                                                             |                                          |                                          |                                           |                                          |
| <b>Crosstalk</b><br>(reference rated power, volume at mid position, 1kHz)                                            | -70 dB                                                                                                            |                                          |                                          |                                           |                                          |
| <b>Nominal AC Line Voltages</b>                                                                                      | 100V, 120V, 220V, 220-240V, 50/60 Hz                                                                              |                                          |                                          |                                           |                                          |
| <b>Minimum Load Impedance</b><br>Low Impedance Output<br>70V Output<br>100V Output                                   | 4 $\Omega$<br>80 $\Omega$<br>160 $\Omega$                                                                         | 4 $\Omega$<br>40 $\Omega$<br>80 $\Omega$ | 4 $\Omega$<br>20 $\Omega$<br>40 $\Omega$ | 4 $\Omega$<br>80 $\Omega$<br>160 $\Omega$ | 4 $\Omega$<br>40 $\Omega$<br>80 $\Omega$ |
| <b>Operating Temperature/<br/>Humidity</b>                                                                           | 0°C to 35°C @ 95% R.H. (non-condensing)                                                                           |                                          |                                          |                                           |                                          |
| <b>Storage Temperature</b>                                                                                           | -20°C to 85°C                                                                                                     |                                          |                                          |                                           |                                          |
| Dimensions & Weight                                                                                                  |                                                                                                                   |                                          |                                          |                                           |                                          |
| <b>Net Weight</b>                                                                                                    | 19.4 lb<br>(8.8 kg)                                                                                               | 20.2 lb<br>(9.2 kg)                      | 25.5 lb<br>(11.6 kg)                     | 25.5 lb<br>(11.6 kg)                      | 29.3 lb<br>(13.3 kg)                     |
| <b>Dimensions</b>                                                                                                    | Width: 17.0 in. (432 mm)<br>Depth: 16.3 in. (415 mm)<br>Height: 3.5 in. (88 mm)                                   |                                          |                                          |                                           |                                          |
| <b>Shipping Weight</b>                                                                                               | 24.6 lb<br>(11.2 kg)                                                                                              | 25.5 lb<br>(11.6 kg)                     | 30.8 lb<br>(14 kg)                       | 30.8 lb<br>(14 kg)                        | 34.5 lb<br>(15.7 kg)                     |

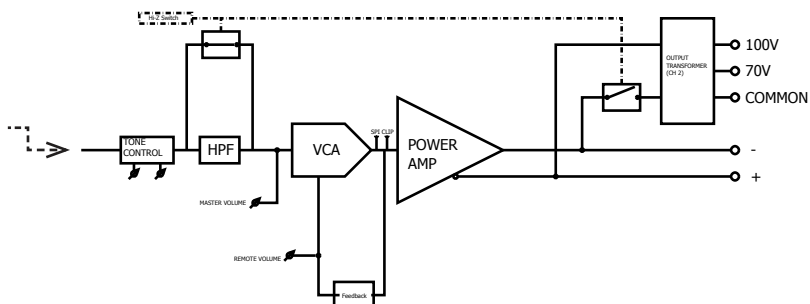
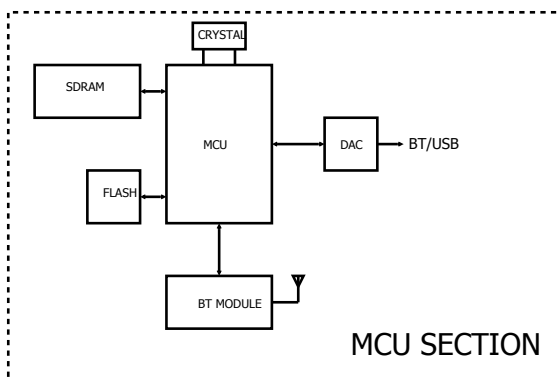
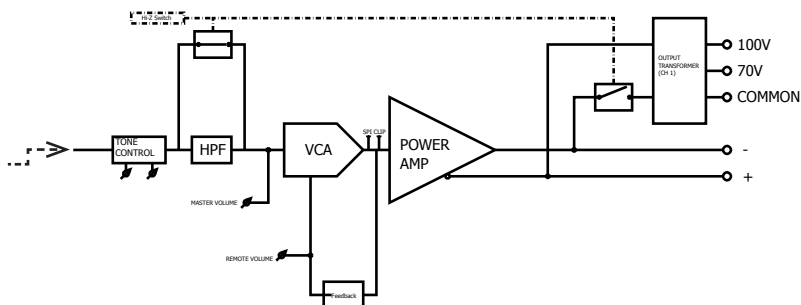
**Note:** For AC power draw and thermal dissipation information, please visit our website. [www.jblcommercialproducts.com](http://www.jblcommercialproducts.com)

## Appendix B: Block Diagrams

### VMA260 & VMA2120



## VMA260 & VMA2120 Continued



## VMA160, VMA1120 & VMA1240

