

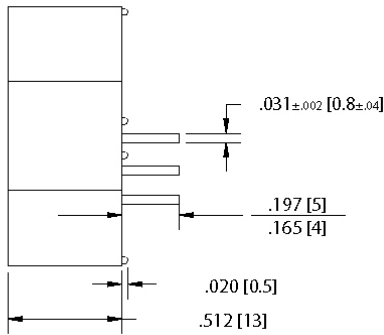
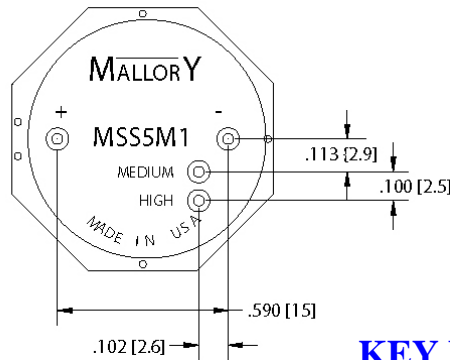
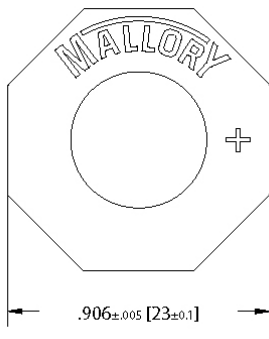


MALLORY SONALERT PRODUCTS, INC.

Product APPLICATION Guide



Part Number: MSS5M1 For IEC60601-1-8 Medical Applications



KEY FEATURES:

- Designed to Meet IEC 60601-1-8
- 975 Hz Fundamental Frequency
- 4 Harmonic Peaks within ± 15 dB (1 to 4 kHz)
- 88 dB @ 10 cm Typical
- Three priority sounds (low, medium, & high)

Specifications:

Voltage Range: 5.0 ± 0.5 Vdc
Sound Level: 88 dB @ 10 cm Typical
Frequency: 975 ± 24 Hz

Sound Harmonics: Minimum of 4 (1 to 4 kHz)

Operating Temp: -30°C to $+70^{\circ}\text{C}$

Storage Temp: -30°C to $+70^{\circ}\text{C}$

Case Material: Valox (UL94-V0)

Current Level: < 250 mA during BEEP time
 < 10 mA during PAUSE time

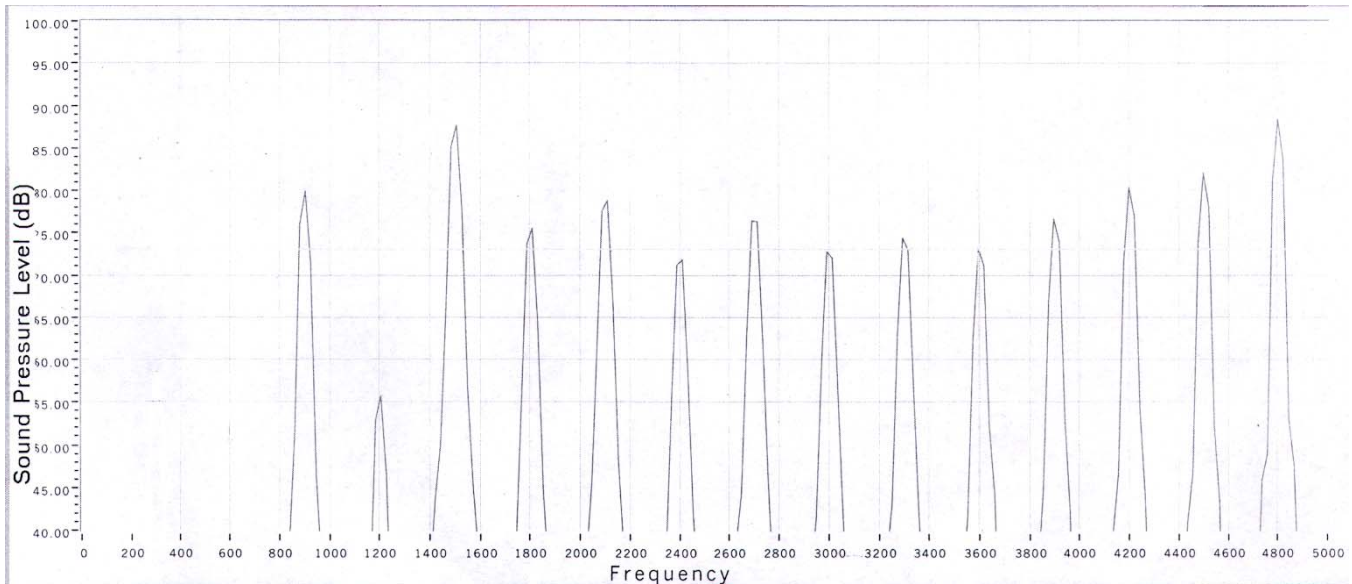
***Low Priority Signal:** 2 Beeps that Repeat
***Med Priority Signal:** 3 Beeps that Repeat
***High Priority Signal:** 10 Beeps that Repeat

*per IEC 60601-1-8 Tables 203 & 204

Continued

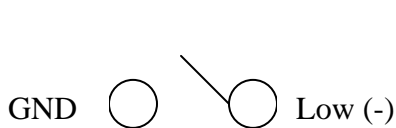
MSS5M1 Alarm (Con't)

Frequency Response:

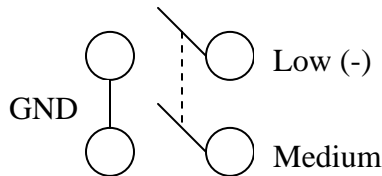


As shown above, the fundamental frequency is 975 Hz, and there are more than 4 harmonic peaks between 1 and 4 kHz. All harmonic peaks are within ± 15 dB of the fundamental frequency

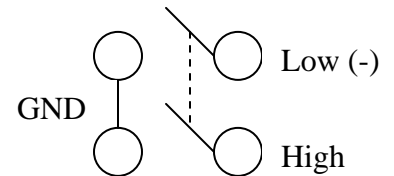
Priority Signal Activation:



Low Priority



Medium Priority



High Priority

Priority Signal Details:

- **Low Priority:** *Beep*, Pause 200ms, *Beep*; Repeat every 20 sec's
- **Med Priority:** *Beep*, Pause 200ms, *Beep*, Pause 200ms, *Beep*; Repeat every 7.5 sec's
- **High Priority:** *Beep*, Pause 100ms, *Beep*, Pause 100ms, *Beep*, Pause 300ms, *Beep*, Pause 100ms, *Beep*, Pause 500ms, *Beep*, Pause 100ms, *Beep*, Pause 100ms, *Beep*, Pause 300ms, *Beep*, Pause 100ms, *Beep*; Repeat every 2.5 sec's

Note: Beep “on” time is 100ms (high priority) & 200ms (low & medium priority).