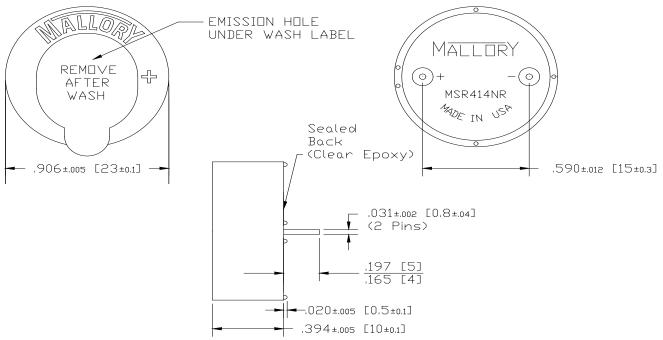
MALLORY Mallory Sonalert Products,Inc. Part #: MSR414NSR Sales Outline Drawing Revision: C

Specifications:

Sound Level Category	Loud
Mode of Operation	Continuous
Voltage Rating	4 to 14 VDC
Frequency	3500 ± 500 Hz
Loudness @ 1 FT	88 to 96 dB(A) Typ.
Current Draw	3-12 mA
Housing Material	Valox (UL94V-0), Color Blue
Storage Temperature	-40°to +80°C
Operating Temperature	-40°to +65°C
Weight (Typical)	3.5g
Options	Please contact factory.

Dimensions: Inches (mm)

ROHS Compliant



NOTE A: TERMINALS - .031" DIA. NICKEL/TIN COATED BRASS.

NOTE B:

MOUNTING- INSERT INTO PRINTED CIRCUIT BOARD AND HAND OR MACHINE SOLDER. UNITS ARE SUITABLE FOR WAVE SOLDERING AND AQUEAUS WASH WHEN THE EMISSION HOLE IS COVERED WITH A WASH LABEL. RECOMMENDED MAXIMUM TEMPERATURE AND TIME DURATION FOR WAVE SOLDERING IS +270°C AND 3 SECONDS RESPECTIVELY.

NOTE C

PART NUMBER - FOR SEALED MODELS WHICH INCLUDE A WASH LABEL, THE PART NUMBER ENDS WITH THE SUFFIX "SR". THE LETTER "S" IS FOR ORDERING PURPOSES ONLY AND WILL NOT BE LISTED ON THE PART ITSELF.

MALLORY SONALERT PRODUCTS, INC.

MSR & MSO Series Buzzers

Aqueous Wash:

In order to process MSR & MSO Series buzzers through an aqueous wash, the buzzer must have a wash label and be sealed on the back with epoxy. Sealed buzzers have a "SR" suffix in the part number. For example, P/N MSR320SR is sealed and appropriate for aqueous wash. P/N MSR320R is not sealed.

After aqueous wash, the wash label must be removed from the buzzer.

Wave Solder Profile:

Refer to the wave solder machine manufacturer's recommended wave solder profile. If needed, adjust the maximum time & temperature to 270°C for 3 seconds to process MSR & MSO series buzzers.

Moisture Sensitivity Level (MSL): Level 1 (Unlimited)

Packaging: All parts are bulk packed.

Origin: Made in USA

Sound Level vs Distance:

Sound level decreases as the sound waves travel over distance, so it is important to note the specified distance when comparing sound levels. For example, if a buzzer measures 88 decibels (dB) at 30 cm, then it will measure:

97 dB @ 10 cm

82 dB @ 60 cm

78 dB @ 1 Meter

Mallory Sonalert has developed a tool to help convert sound levels depending on the distance. You can download the tool from our website: http://www.mallory-sonalert.com/PerformanceCurves/Sound%20Level%20Distance%20Conversion%2 https://www.mallory-sonalert.com/PerformanceCurves/Sound%20Level%20Distance%20Conversion%2 https://www.mallory-sonalert.com/PerformanceCurves/Sound%20Level%20Distance%20Conversion%2 https://www.mallory-sonalert.com/PerformanceCurves/Sound%20Level%20Distance%20Conversion%2">https://www.mallory-sonalert.com/PerformanceCurves/Sound%20Level%20Distance%20Conversion%2 https://www.mallory-sonalert.com/ https: