



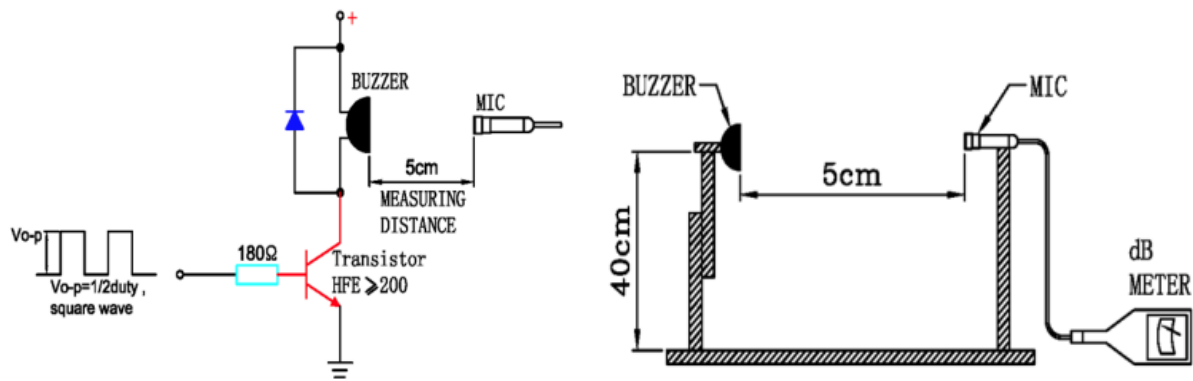
Data Sheet	SMT-1127-S-R
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- Features:**
- 9mm, 2731Hz Magnetic SMD Transducer
  - Low Profile Height at 2.5mm
  - Reflow Allowed, Washing NOT Allowed

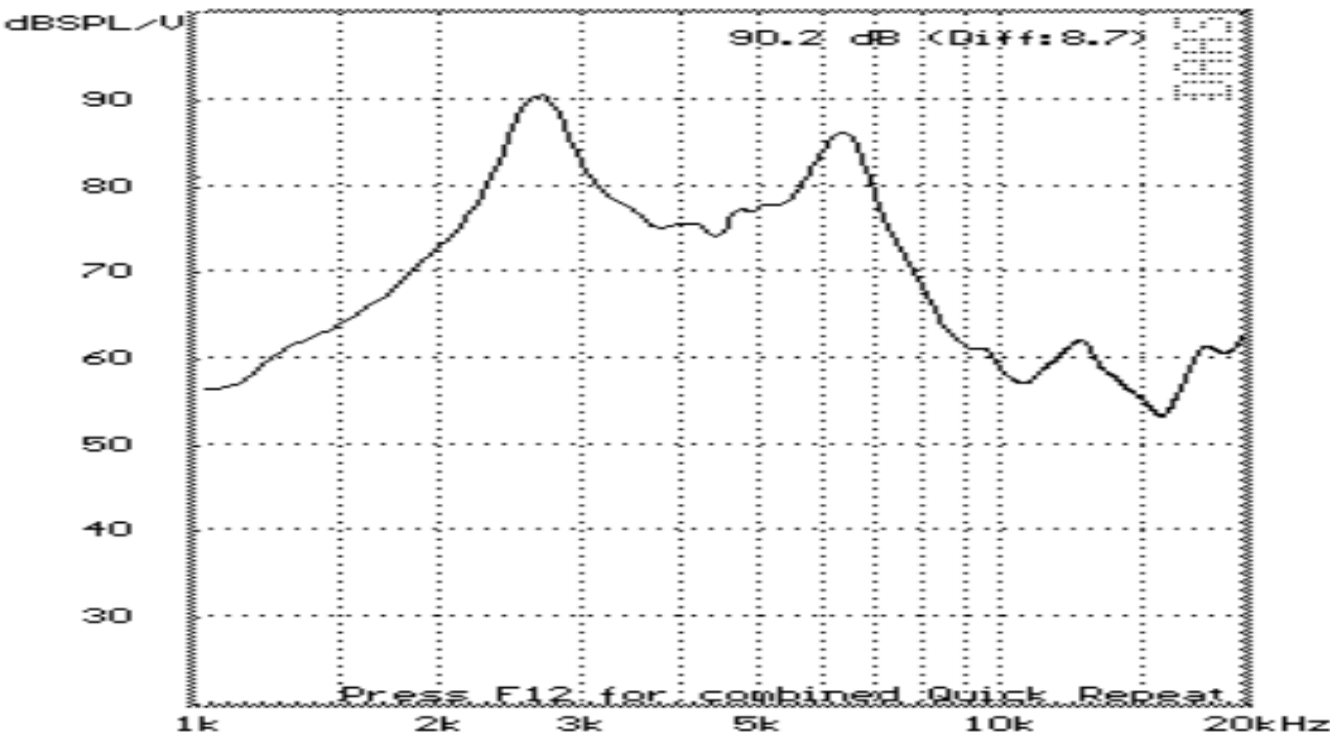
**Specifications**

Parameters	Values	Units
Rated Voltage	3.6	V0-pk
Operating Voltage Range	2.5 - 4.5	V0-pk
Current Draw at Rated Voltage	100 (Max)	mA
Coil Resistance	16 ± 3	Ohms
Minimum SPL @ 10cm	80	dBA
Resonant Frequency	2731 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Tin Plated Brass	-
Weight	0.8	Grams
Moisture Sensitivity Level (MSL)	2A	-
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See following pages for soldering information
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-40 to +85	°C
Operating Temperature	-30 to +70	°C

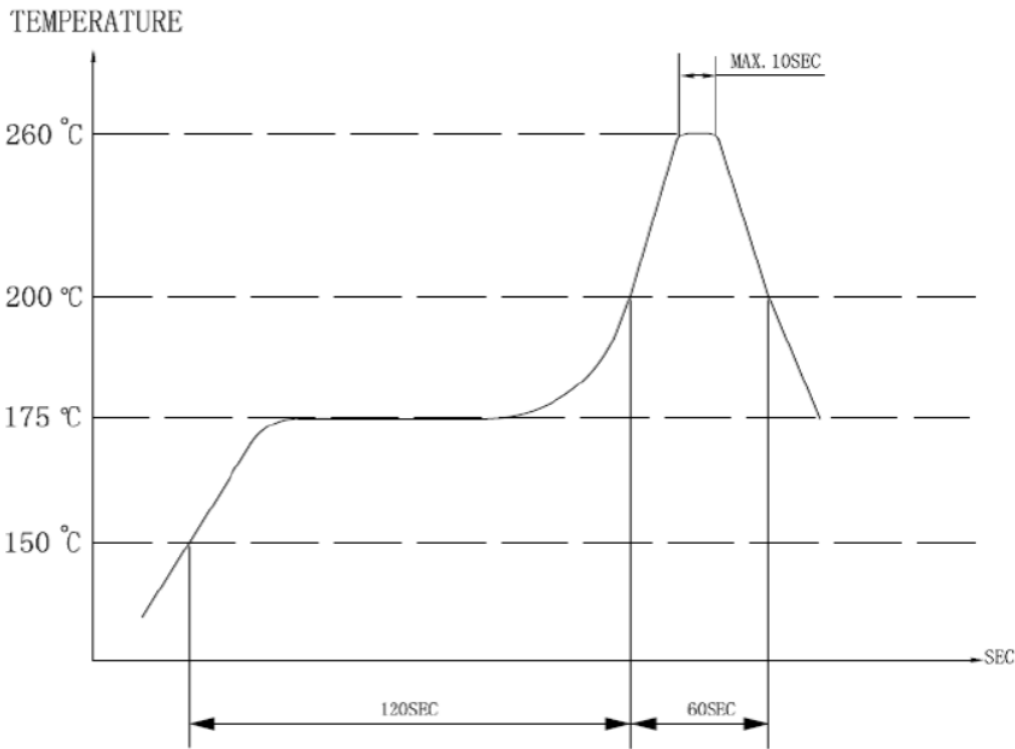
**Measurement Method (Square Wave 3.6Vpk, 2731Hz @ 10cm)**



Typical Frequency Response (3.6Vpk square wave, d= 10cm)

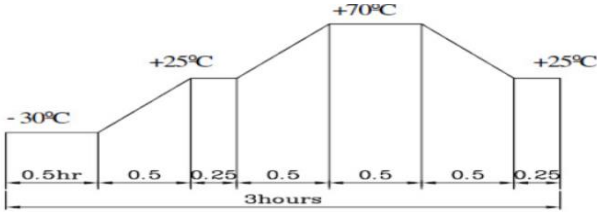


Recommended Soldering Procedure



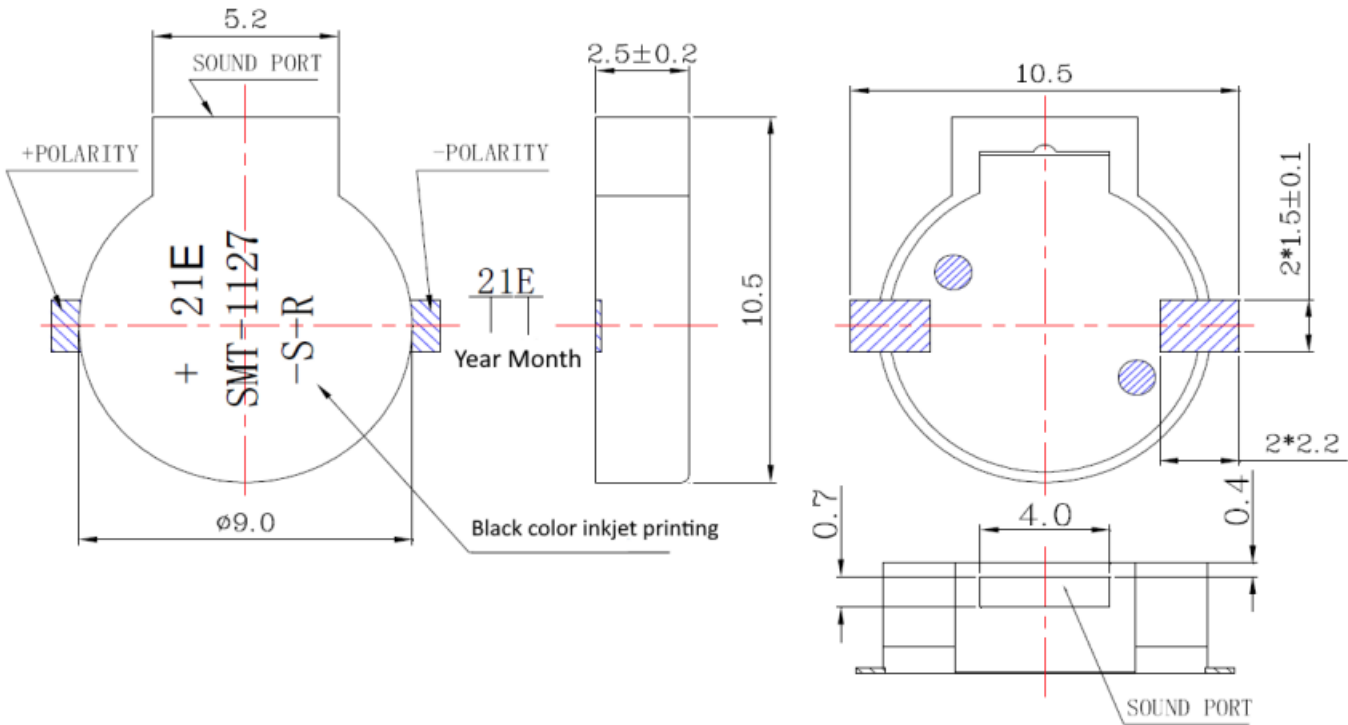
**\*Manual Soldering Temperature 350C within 5 seconds.**

Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C. Rest for 2 hours normal condition before retesting.
Low Temperature Test	96 hours at -40°C. Rest for 2 hours normal condition before retesting.
Humidity Test	96 hours at 40°C with relative humidity at 90-95%. Rest for 2 hours normal condition before retesting.
Temperature Cycle Testing	Subject part to 5 cycles of the following cycle; 
Vibration Test	Apply vibration amplitude of 1.5mm with 10-55Hz band to each XYZ direction for 2 hours.
Drop Test	Drop onto 4cm thick wooden board from 75cm height, 6 times, any direction.

After tests, part shall be within ±10dB of stated SPL.

Dimensions (Tolerances ±0.5 unless otherwise specified)





Specifications Revisions			
Revision	Description	Date	Approved
-	Released from Engineering	08/05/2014	-
A	Updated Spec Format, Add Details for Reliability, Packaging, MSL, etc.	12/04/2024	ML

- Note:
- 1. Unless otherwise specified:
    - A. All dimensions are in millimeters.
    - B. Default tolerances are  $\pm 0.5\text{mm}$  and angles are  $\pm 3^\circ$ .
  - 2. Specifications subject to change or withdrawal without notice.