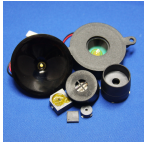


CT08E-04S270-7

Rev. 1-2026
RoHS3 & REACH
Electromagnetic Sound Transducers



Operating Characteristics

ELECTRICAL

Rated Voltage	3.6 Vo-p
Operating Voltage	2.5 to 4.5 Vo-p
Coil Resistance	$16 \pm 3 \Omega$
Max Current at V Rated	100 mA

ACOUSTIC

Min SPL at V Rated	85 dB
Test Conditions	10 cm
f_0	2,700 Hz



Physical Characteristics

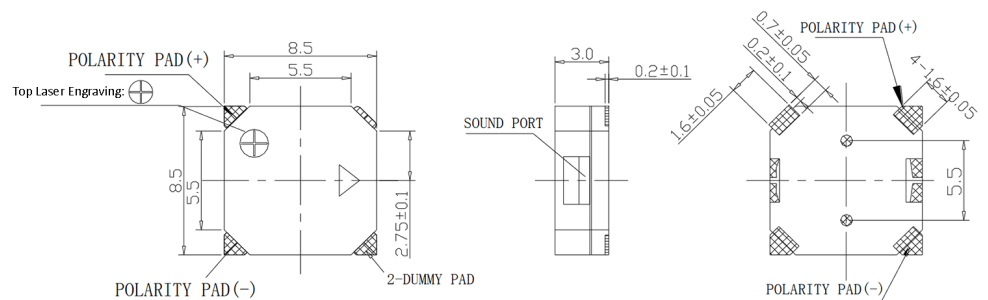
MATERIAL

Housing	LCP (Black)
Diaphragm	Ni Alloy
Magnet	Ferrite
Solder Pads	Brass

TEMPERATURE RANGES

Operating	-40 to +105 °C
Storage	-40 to +120 °C

Weight 0.6 g



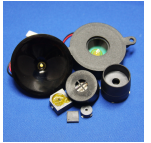
General tolerance = ± 0.5 mm and all measurements in mm unless otherwise noted.

Revision	Description	By	Date
0-2023	Original Specification.	SK	2023-09-20
1-2026	Updated the Operating Temperature from -40 to +85 °C to -40 to +105 °C and the Storage Temperature from -40 to +85 °C to -40 to +120 °C. Updated the Diaphragm material from "Iron" to "Ni Alloy".	KG	2026-07-23

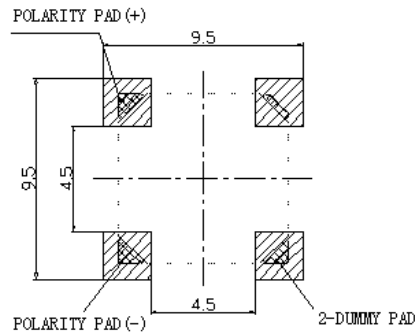
Warranty: For a period of one (1) year from date of shipping under normal operations conditions. This warranty does not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to repair.

The information contained herein is believed to be correct, but no guarantee or warranty, express or implied, with respect to accuracy, completeness or results is extended and no liability is assumed. Challenge Electronics reserves the right to make changes in any specification, data or material contained herein.

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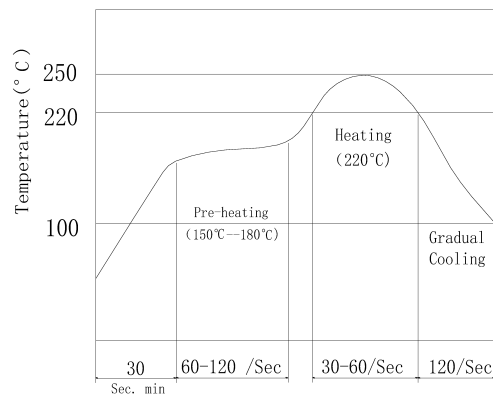
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Recommended Footprint

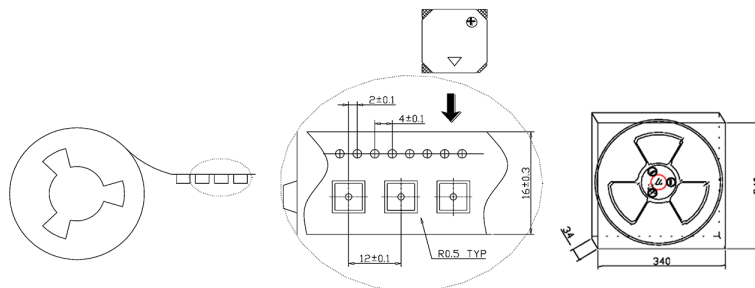


SMD REFLOW PATTERN

Recommended Reflow Profile



Tape & Reel Packaging



1000 pieces per reel,
5 reels, each sealed in a vacuum packed anti-static bag,
5000 pieces total per box.

Revision	Description	By	Date
0-2023	Original Specification.	SK	2023-09-20
1-2026	Updated the Operating Temperature from -40 to +85 °C to -40 to +105 °C and the Storage Temperature from -40 to +85 °C to -40 to +120 °C. Updated the Diaphragm material from "Iron" to "Ni Alloy".	KG	2026-07-23

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