CHALLENGE ELECTRONICS

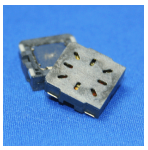
Tel: 1-800-722-8197
1-631-595-2217
Fax: 1-631-667-5484

EMAIL: sales@challelec.com
WEB: www.challengeelectronics.com
ISO 9001/14001:2015 Certified

INDICATORS • SPEAKERS • SOUND TRANSDUCERS • ENCLOSURES • MICROPHONES • BATTERY ACCESSORIES

CS13-00S85-04-6

Rev. 1-2024
RoHS3 & REACH
Surface Mount Speakers



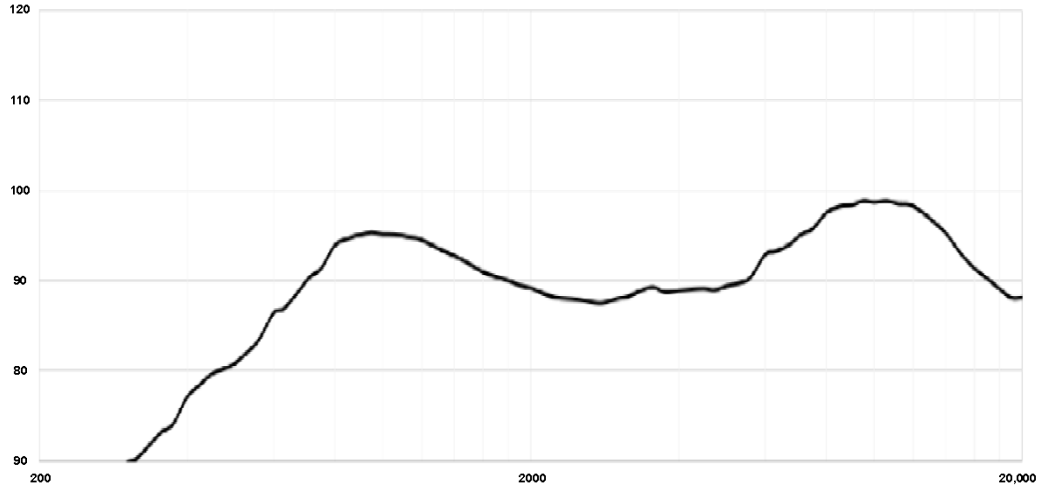
Operating Characteristics

ELECTRICAL

Rated Power	0.7 W
Short Term Max Power	1.0 W
Impedance	8 Ω ± 20 % 2000 Hz; 0.7 W

ACOUSTIC: Baffle Board

f_o	850 Hz ± 20 % 10 cm; 0.7 W
Freq. Range	680 to 20,000 Hz
Rated SPL	90 ± 3 dB 1000, 1600, 2000, 3200 Hz; AVG; 0.7 W; 10 cm
Distortion	Max 10 % 2200 Hz; 0.7 W



Physical Characteristics

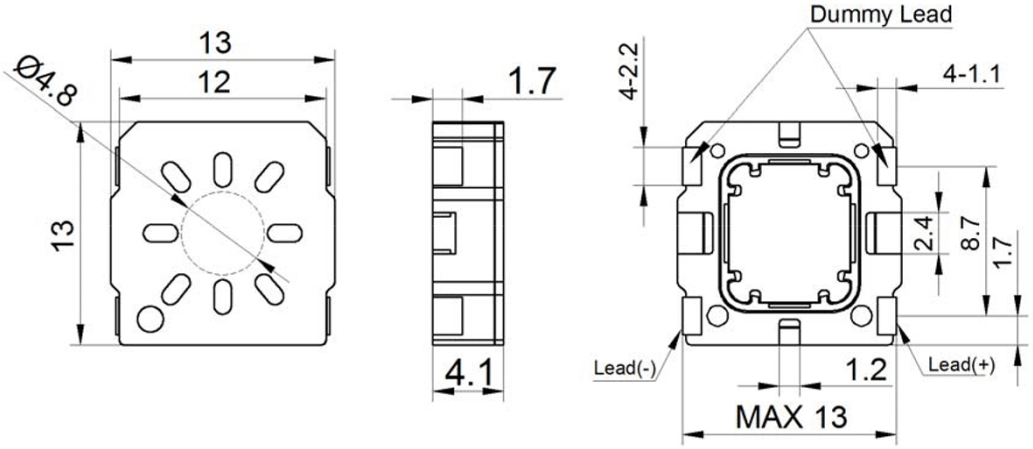
MATERIALS

Housing	LCP
Cone	PI
Magnet	Samarium Cobalt
Solder Pads	Tin Plated Copper

TEMPERATURE RANGES

Operating	-30 to +85 °C
Storage	-40 to +105 °C

Weight 1.2 g



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

Revision	Description	By	Date
0-2023	Original Specification.	AL	2023-03-09
1-2024	Updated frequency range.	SK	2024-02-22

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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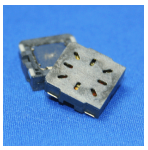
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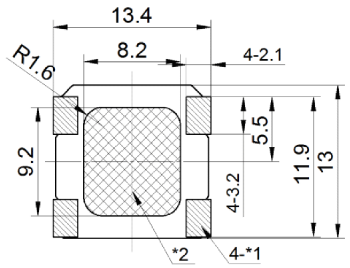
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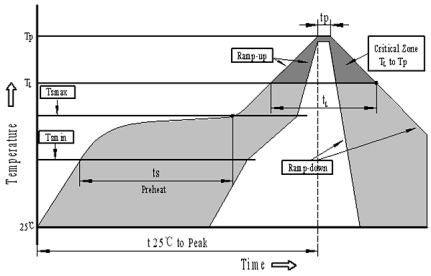


Recommended Footprint



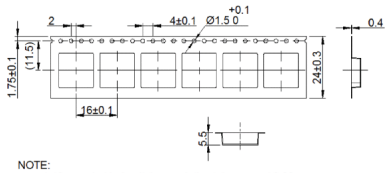
NOTE
1.Land pattern*1
2.Avoid any pattern
on the shade area
*2 of PC board is highly recommended

Recommended Reflow Profile

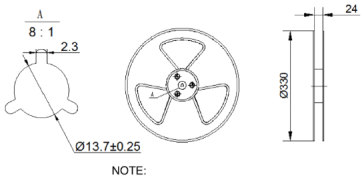


Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to Tp)	3°C/second max.
Preheat	
-Temperature Min.(T_{smin})	150°C
-Temperature Min.(T_{smax})	200°C
-Temperature Min.(ts)	60～180 seconds
T_{Smax} to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T_L)	217°C
-Time(T_L)	60～150 seconds
Peak temperature(Tp)	245°C+0/-5°C
Time within 5°Cof actual Peak temperature (tp)	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.
We suggest the customer do the reflow soldering once.	

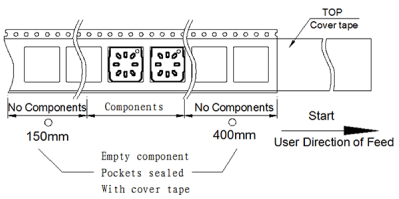
Tape & Reel Packaging



NOTE:
1.10 sprocket hole pitch cumulative tolerance +/-0.20mm.
2.All dimensions meet EIA-481-D requirements.
3.Thickness：0.4+/-0.05mm.
4.Component loaded per 13"reel：750pcs.



NOTE:
1. 750 pieces per box
2. 10 boxes per carton
3. 7500 pieces per carton



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