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

CS13-00S85-04-5

Former P/N: CES130S040BA08PPS850MR

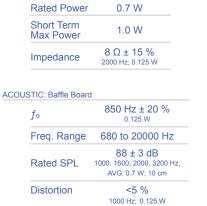
0 7 W

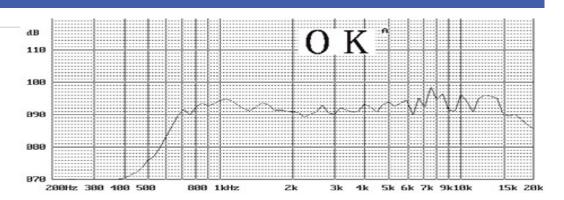
Rev. 5-2019 **RoHS3 & REACH Surface Mount Speakers**



Operating Characteristics

ELECTRICAL





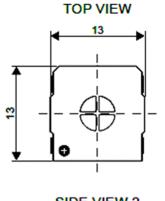
Physical Characteristics

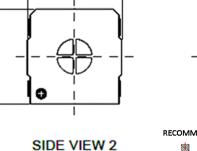
Housing	Plastic
Cone	PI
Magnet	NdFeB
Solder Pad	Copper, Gold Plated

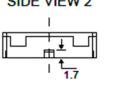
TEMPERATURE RANGES

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

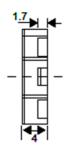
Weight 1.1 g





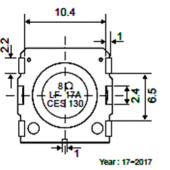


SIDE VIEW

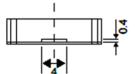




BOTTOM VIEW



Month: A-Jan., B-Feb.



All measurements in mm unless otherwise noted

ption	Ву	Date
ed various measurement conditions (impedance, distortion, buzz + rattle)	WS	2018-05-30
e to new format	JL	2019-06-21
90	d various measurement conditions (impedance, distortion, buzz + rattle)	d various measurement conditions (impedance, distortion, buzz + rattle) WS

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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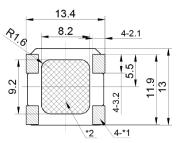
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Former P/N: CES130S040BA08PPS850MR

Rev. 5-2019 RoHS3 & REACH Surface Mount Speakers



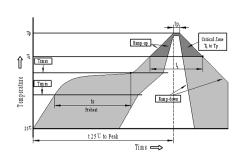
Recommended Footprint



NOTE

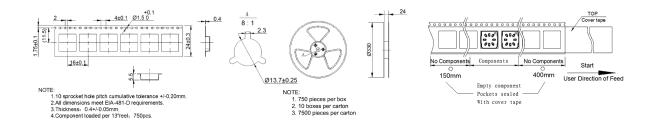
- 1.Land pattern*1
- 2.Avoid any pattern
- on the shade area
- *2 of PC board is highly recommended

Recommended Reflow Profile



Profile Feature	Pb-Free Assembly		
Average ramp-up rate(T _L to Tp)	3°C/second max.		
Preheat			
-Temperature Min.(Tsmin)	150°C		
-Temperature Min.(Tsmax)	200°C		
-Temperature Min.(ts)	60∼180 seconds		
Tsmax to TL			
-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



Revision	Description	Ву	Date
4-2018	Updated various measurement conditions (impedance, distortion, buzz + rattle)	WS	2018-05-30
5-2019	Migrate to new format	JL	2019-06-21

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