

**MODEL:** CSS-J4B20-SMT-TR | **DESCRIPTION:** MAGNETIC BUZZER TRANSDUCER**FEATURES**

- high sound pressure level
- side sound port
- externally driven

**SPECIFICATIONS**

| parameter             | conditions/description                                                            | min | typ   | max | units |
|-----------------------|-----------------------------------------------------------------------------------|-----|-------|-----|-------|
| rated voltage         |  |     | 3.6   |     | Vo-p  |
| operating voltage     |                                                                                   | 3   |       | 5   | Vo-p  |
| current consumption   | at rated voltage, 2,730 Hz square wave, ½ duty                                    |     |       | 80  | mA    |
| rated frequency       |                                                                                   |     | 2,730 |     | Hz    |
| sound pressure level  | at 5 cm [A-weight], rated voltage, 2,730 Hz square wave, ½ duty                   | 90  | 97    |     | dBA   |
| coil resistance       |                                                                                   | 17  | 20    | 23  | Ω     |
| dimensions            | 8.5 x 8.5 x 3.2                                                                   |     |       |     | mm    |
| weight                |                                                                                   |     | 0.7   |     | g     |
| material              | LCP (white)                                                                       |     |       |     |       |
| terminal              | SMT type [Au plating]                                                             |     |       |     |       |
| operating temperature |                                                                                   | -30 |       | 70  | °C    |
| storage temperature   |                                                                                   | -40 |       | 85  | °C    |
| RoHS                  | yes                                                                               |     |       |     |       |

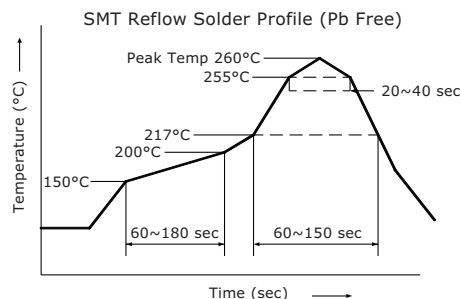
Notes: 1. All specifications measured at 5-35°C, humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

**SOLDERABILITY**

| parameter                      | conditions/description                   | min | typ | max | units |
|--------------------------------|------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <60%                |     |     | 30  | °C    |
| reflow soldering <sup>2</sup>  | see recommended reflow soldering profile |     |     | 260 | °C    |
| drying conditions <sup>3</sup> | bake at 40°C for 24 hours                |     |     |     |       |

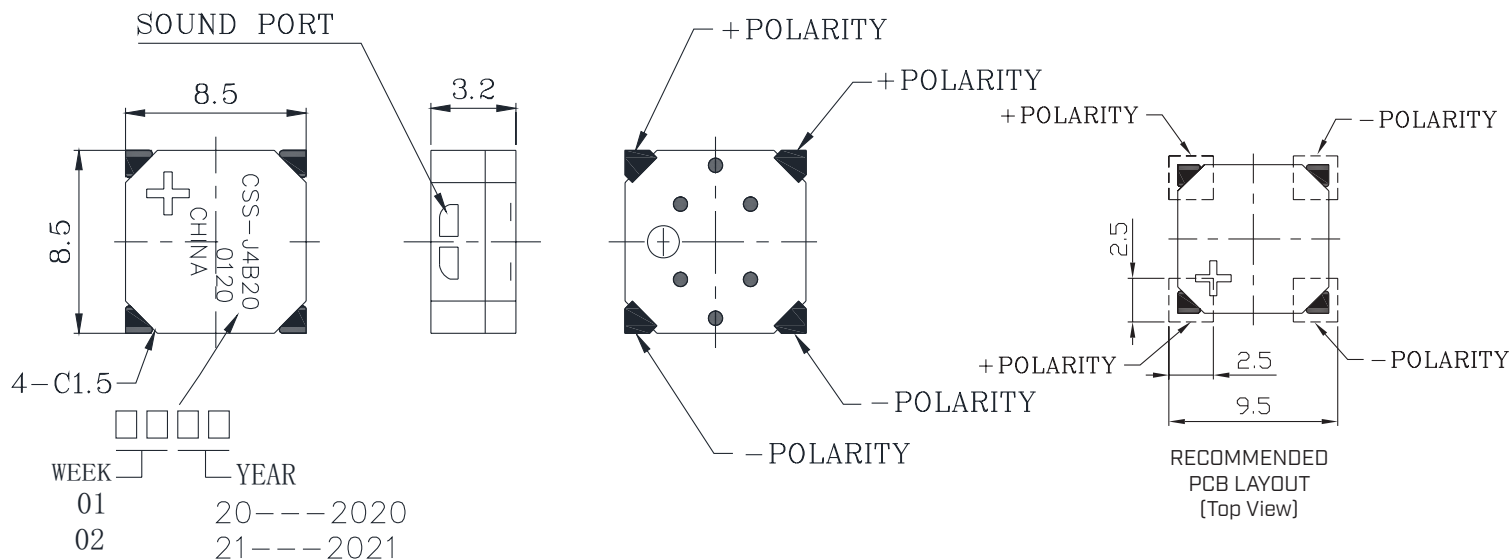
Note: 2. It is recommended to reflow solder within 48 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.

3. When out of packaging for more than 48 hours.

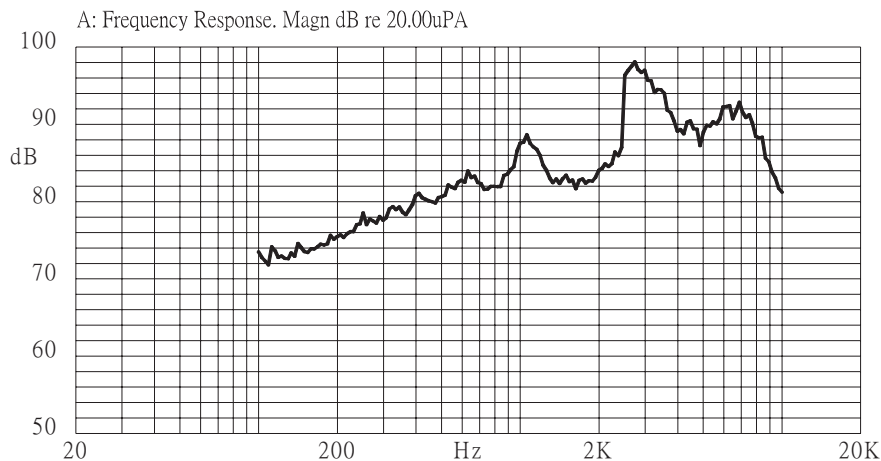


## MECHANICAL DRAWING

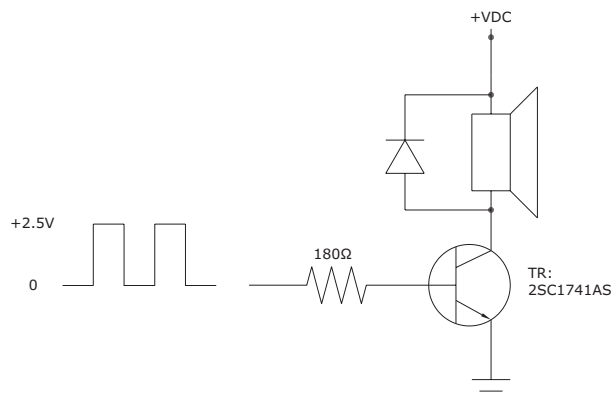
units: mm  
tolerance:  $\pm 0.5$  mm



## FREQUENCY RESPONSE CURVE



## MEASUREMENT METHOD



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## REVISION HISTORY

| rev. | description                                                              | date       |
|------|--------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                          | 11/13/2006 |
| 1.01 | updated part number, added TR package option, applied new spec template  | 05/03/2013 |
| 1.02 | added storage and drying conditions, and tape and reel packaging details | 07/19/2019 |
| 1.03 | brand update                                                             | 01/06/2020 |
| 1.04 | modified housing base                                                    | 03/22/2021 |
| 1.05 | logo, datasheet style update                                             | 08/05/2022 |

The revision history provided is for informational purposes only and is believed to be accurate.



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