Bridgetek Pte Ltd
Datasheet
CleO-Speaker Module

1 Introduction

The *CleO*-Speaker module is a speaker accessory for the *CleO* series –The Smart TFT Display for Arduino. It consists of a 0.5W 8 OHM speaker driver preinstalled inside a black speaker.

With the *CleO*-Speaker module, users can playback music/tones whenever the *CleO* application requires it. There is also an audio line in capability provided to allow users to input audio from an external source to *CleO*'s on board speaker amplifier.

2 Ordering Information

Part No.	Description
CleO-SPK1	*CleO*-Speaker , 8 OHM 0.5 W speaker driver in black bezel

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3 Module Technical Specification

3.1 Technical Data
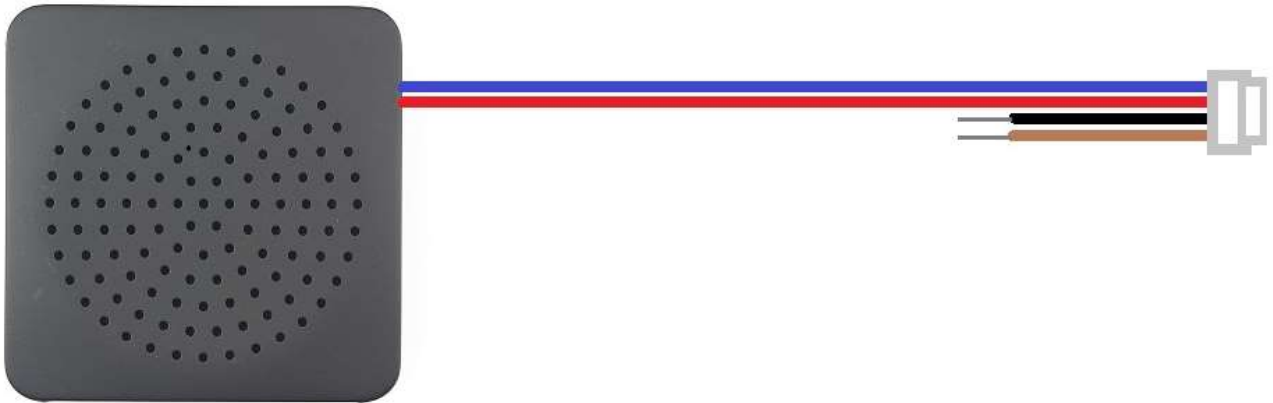
Figure 1 - *CleO* Speaker

1	Part Number	*CleO*-SPK1
2	Dimension	63(W)X63(L)X23.8(D) MM
3	Norminal Impedance	8 OHM ± 15 %
4	Norminal power	0.5W
5	Rated Power	1W
6	Resonance Frequency (FO)	400Hz ±20% Hz
7	Output SPL	87dB ±3dB /1Watt 0.5Meter

Table 1 - Technical Data

See the **Table 2** for the cable pin out definition

Pin No	Pin Description
1	Speaker Negative Terminal
2	Speaker Positive Terminal
3	Ground
4	External Line In

Table 2 - Pin Out Definition

Note: A speaker cable is shipped together with *CleO35* and *CleO50* modules.
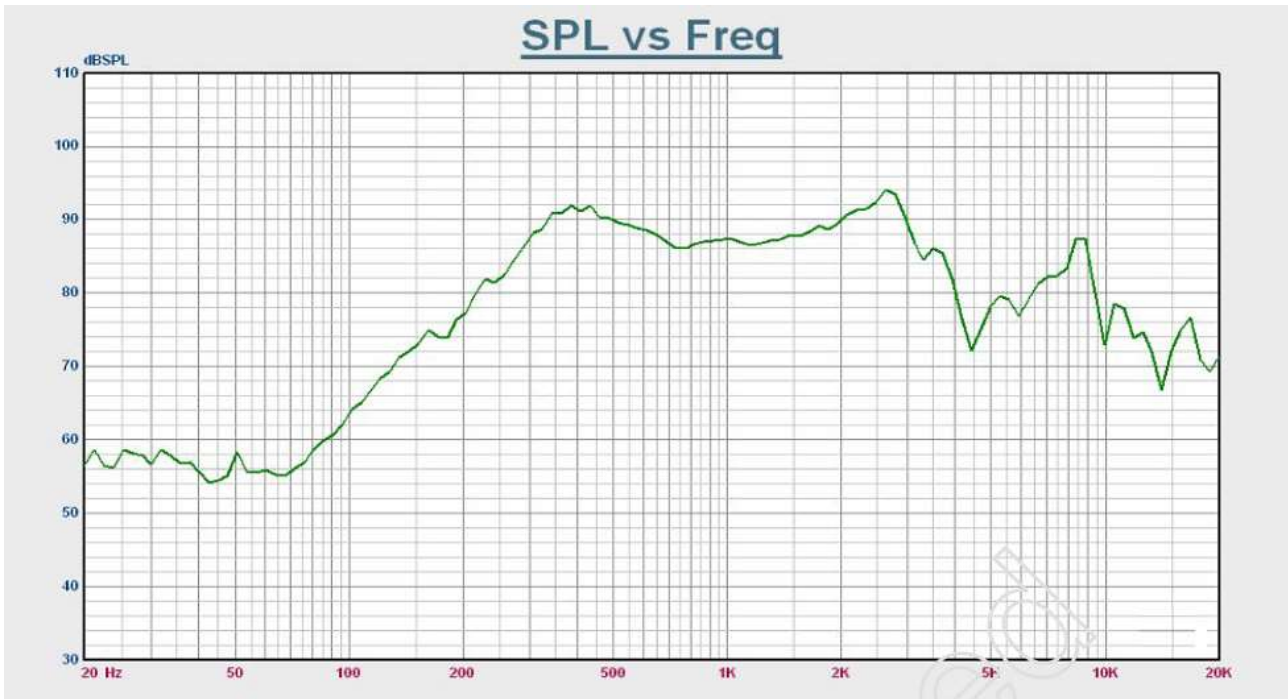
3.2 Typical Performance Characteristics
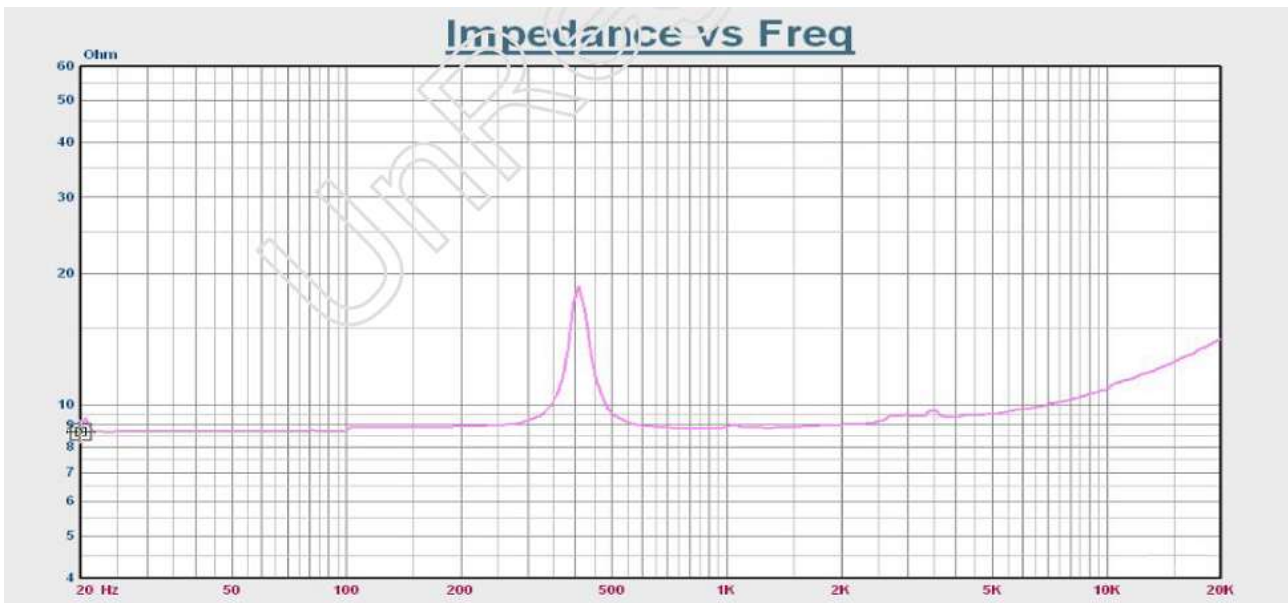

Figure 2 - SPL Vs Frequency Curve

Figure 3 - Impedance Vs Frequency Curve

4 Mechanical Dimensions
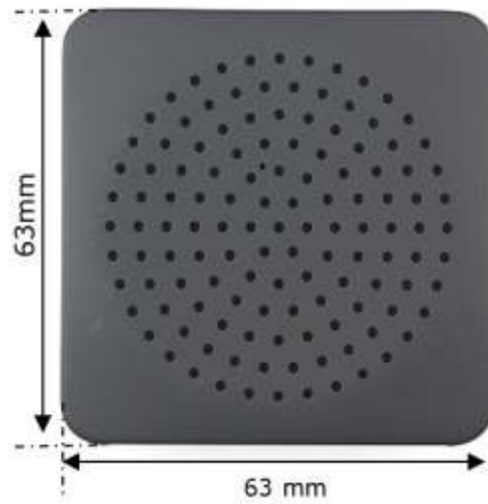
4.1 Speaker Module Dimension

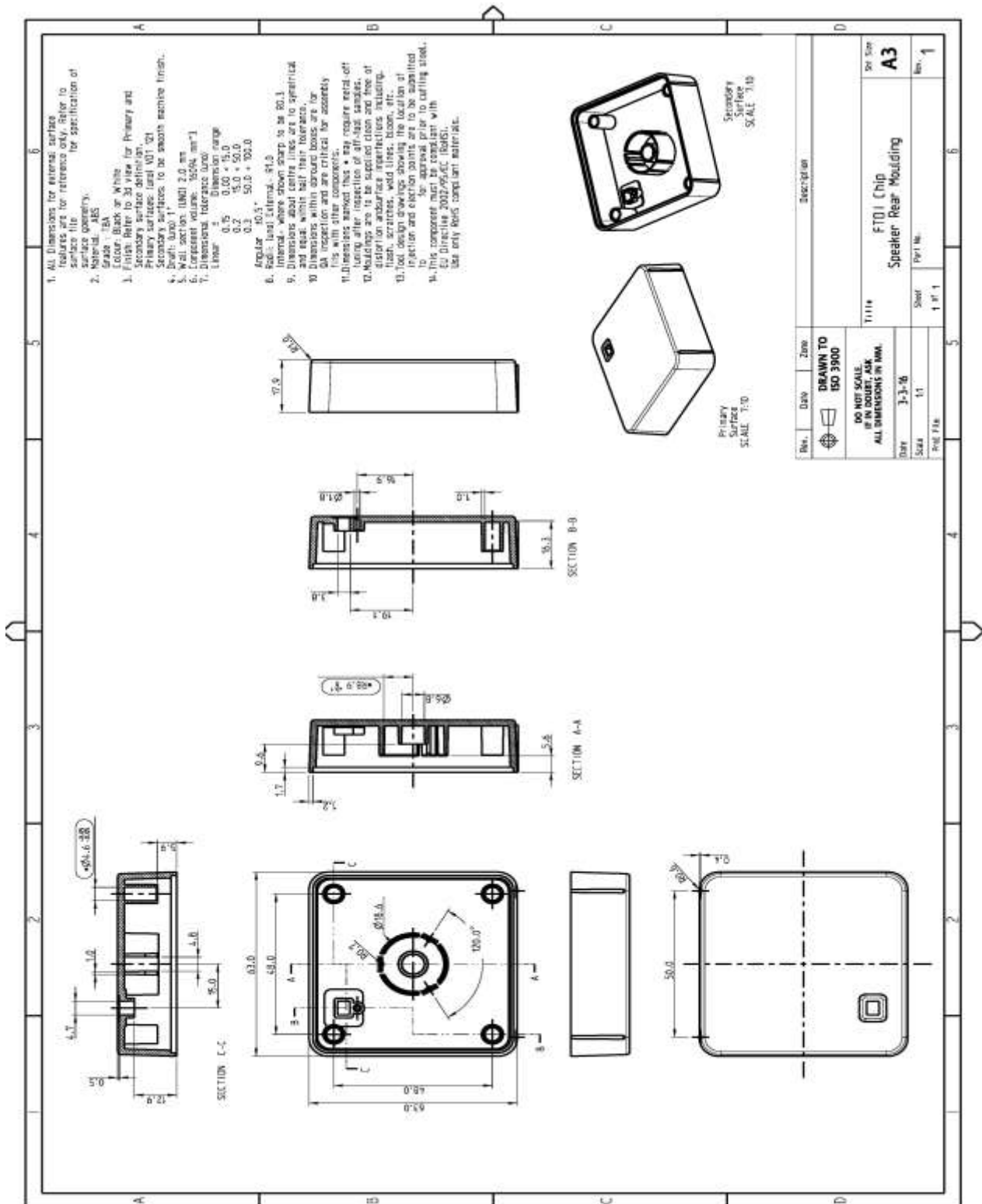**Figure 4 - *CleO* Speaker Module Dimensions**

4.2   Speaker Enclosure Dimension

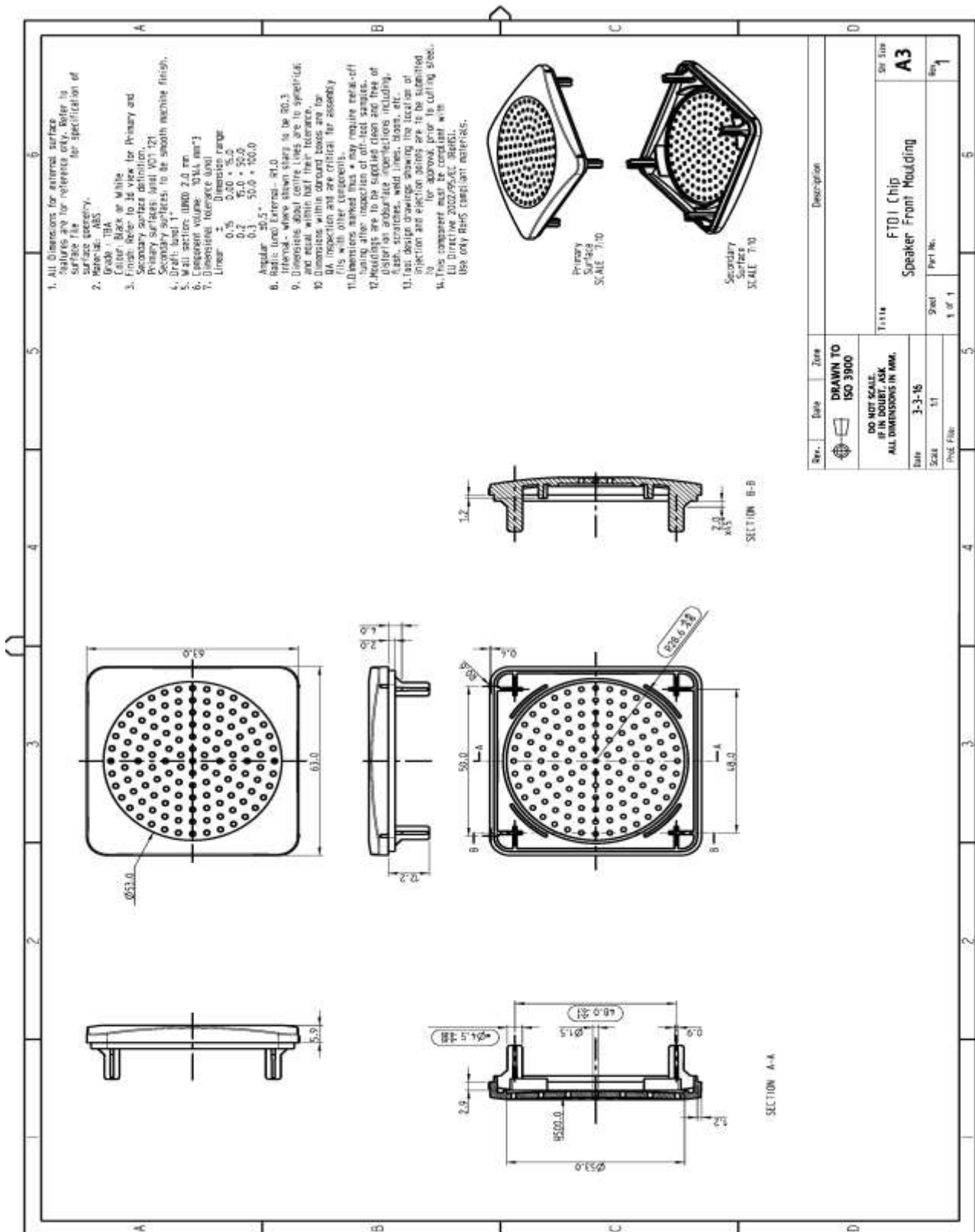**Figure 5 -** *CleO* **Speaker Enclosure Drawing (Rear)**

Figure 6 - *CleO* **Speaker Enclosure Drawing (Front)**

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Appendix A – References

Document References

NA

Acronyms and Abbreviations

Terms	Description
SPL	Sound Pressure Level

Appendix B - List of Figures and Tables

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Appendix C – Revision History

Document Title: CleO-Speaker Module Datasheet

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Clearance No.:   BRT#020

Product Page: http://brtchip.com/m-cleo/

Document Feedback: Send Feedback

Revision	Changes	Date
Version 1.0	Initial Release	2016-04-21
Version 1.1	Dual branding to reflect the migration of the product to the Bridgetek name – logo changed, copyright changed, contact information changed	2016-09-16
Version 1.2	Document migrated from FTDI/BRT Dual branding to BRT; Removed Speaker Cable information from datasheet	2017-09-21

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