

**MODEL:** CPE-121 | **DESCRIPTION:** PIEZO BUZZER TRANSDUCER**FEATURES**

- wire leads with feedback
- 12 Vdc rating
- low profile
- 4.5 kHz rated frequency

**SPECIFICATIONS**

| parameter             | conditions/description              | min   | typ   | max   | units |
|-----------------------|-------------------------------------|-------|-------|-------|-------|
| rated voltage         |                                     |       | 12    |       | Vdc   |
| operating voltage     |                                     | 3     |       | 28    | Vdc   |
| current consumption   | at rated voltage                    |       |       | 13    | mA    |
| rated frequency       |                                     | 4,000 | 4,500 | 5,000 | Hz    |
| sound pressure level  | at 30 cm, rated voltage             | 83    |       |       | dB    |
| dimensions            | Ø24.0 x 5.0                         |       |       |       | mm    |
| weight                |                                     |       |       | 7.4   | g     |
| material              | ABS UL94 1/16" HB High Heat (black) |       |       |       |       |
| terminal              | wire leads                          |       |       |       |       |
| operating temperature |                                     | -30   |       | 85    | °C    |
| storage temperature   |                                     | -40   |       | 95    | °C    |
| RoHS                  | 2011/65/EU                          |       |       |       |       |

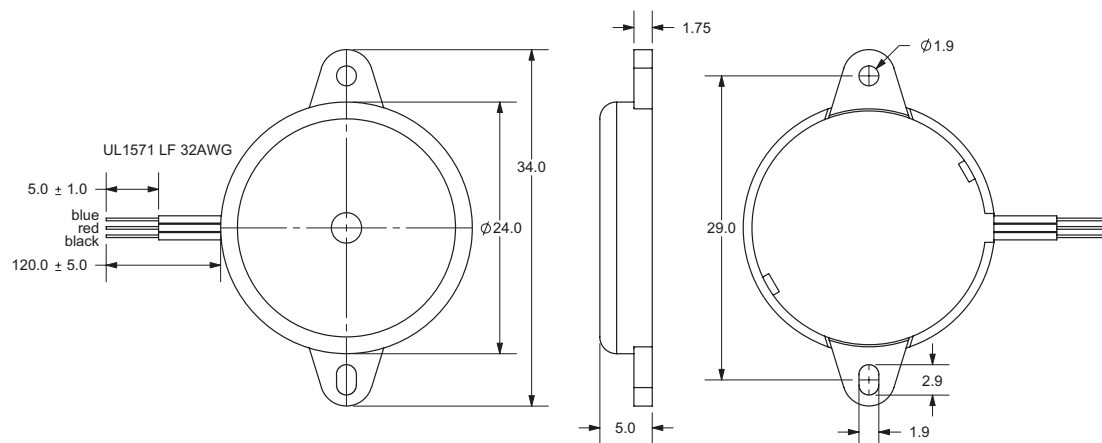
Notes: 1. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106kPa pressure, unless otherwise noted.

## MECHANICAL DRAWING

units: mm

tolerance:  $\pm 0.5$  mm

| WIRE CONNECTIONS |               |
|------------------|---------------|
| Color            | Function      |
| Red              | +terminal (M) |
| Black            | -terminal (G) |
| Blue             | feedback (F)  |

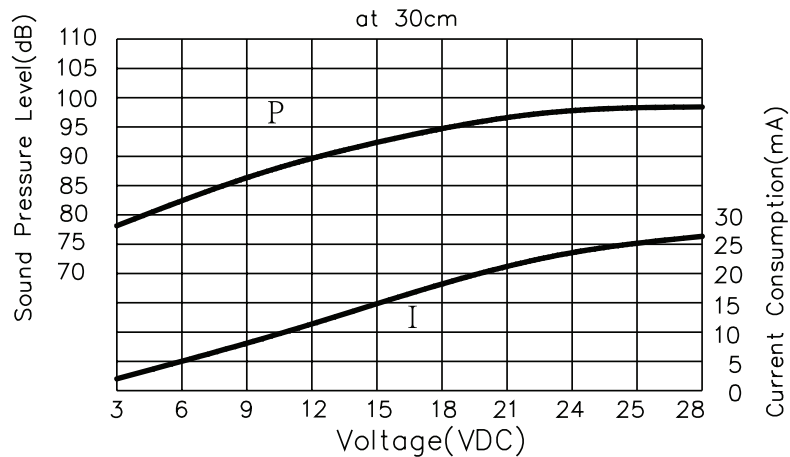


## PERFORMANCE CURVES

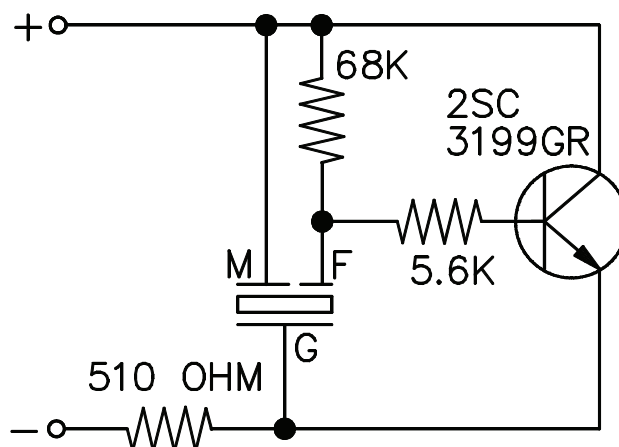
P: Voltage vs. Sound Pressure Level

I: Voltage vs. Current Consumption

at 30cm



## DRIVING CIRCUIT



Notes: 1. The current consumption and the sound pressure level are measured by using the recommended driving circuit shown above.

## REVISION HISTORY

| rev. | description               | date       |
|------|---------------------------|------------|
| 1.0  | initial release           | 11/12/2007 |
| 1.01 | applied new spec template | 01/08/2015 |

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



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