

**SERIES:** CMS-151135-078X | **DESCRIPTION:** SPEAKER**FEATURES**

- micro-speaker
- 8  $\Omega$  impedance
- rated 0.7 W
- 5 available termination options

**SPECIFICATIONS**

| parameter               | conditions/description                                    | min  | typ | max    | units              |
|-------------------------|-----------------------------------------------------------|------|-----|--------|--------------------|
| input power             | max power: as per IEC-268-5, in 1 cc box                  |      | 0.7 | 1.0    | W                  |
| impedance               | at 2.0 kHz, 2.37 Vrms                                     | 6.8  | 8   | 9.2    | $\Omega$           |
| coil resistance         |                                                           | 6.48 | 7.2 | 7.92   | $\Omega$           |
| resonant frequency (Fo) | at 1.0 Vrms in free air, 10 cm                            | 440  | 550 | 660    | Hz                 |
|                         | at 2.37 Vrms in 1 cc box, 10 cm                           | 680  | 850 | 1,020  | Hz                 |
| frequency response      |                                                           | 100  |     | 20,000 | Hz                 |
| sound pressure level    | at 0.7 W, 10 cm, avg 0.8, 1.0, 1.5, 2.0 kHz, 1 cc box     | 88   | 91  | 94     | dB                 |
| distortion              | at 800~1,200 Hz, 2.37 Vrms, 10 cm                         |      |     | 15     | %                  |
|                         | at 1,201~5,000 Hz, 2.37 Vrms, 10 cm                       |      |     | 10     | %                  |
| buzz, rattle, etc.      | must be normal at sine wave, 0.2~2 kHz, 1 cc box          |      |     | 2.37   | Vrms               |
| polarity                | cone moves forward w/ positive dc current to "+" terminal |      |     |        |                    |
| dimensions              | 15 x 11 x 3.5                                             |      |     |        | mm                 |
| magnet                  | Nd-Fe-B                                                   |      |     |        |                    |
| cone material           | PEEK                                                      |      |     |        |                    |
| weight                  |                                                           |      | 1.5 |        | g                  |
| operating temperature   |                                                           | -20  |     | 70     | $^{\circ}\text{C}$ |
| storage temperature     |                                                           | -40  |     | 85     | $^{\circ}\text{C}$ |
| hand soldering          | for maximum 3 seconds (N/A for spring contacts)           |      |     | 380    | $^{\circ}\text{C}$ |
| RoHS                    | yes                                                       |      |     |        |                    |

Notes: 1. All specifications measured at 15~35 $^{\circ}\text{C}$ , humidity at 25~75%, under 86~106 kPa pressure, unless otherwise noted.

**PART NUMBER KEY****CMS-151135-078 XX**

Base Number

Termination Options:

S = spring contacts

SP = solder pads

L100 = wire leads, no connector

L100A = wire leads with Molex housing 51021-0200

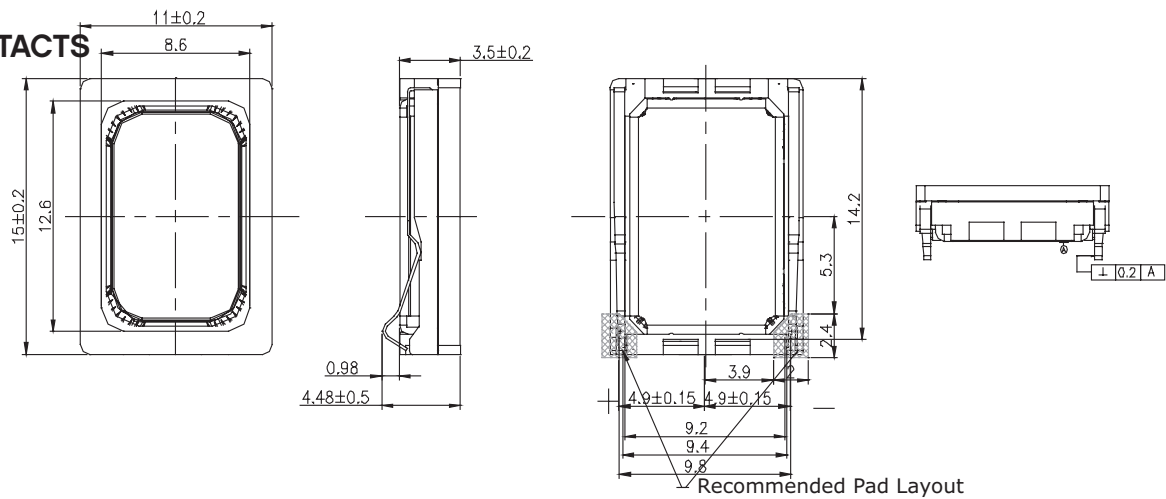
L100B = wire leads with JST housing SHR-02V-S-B

## MECHANICAL DRAWINGS

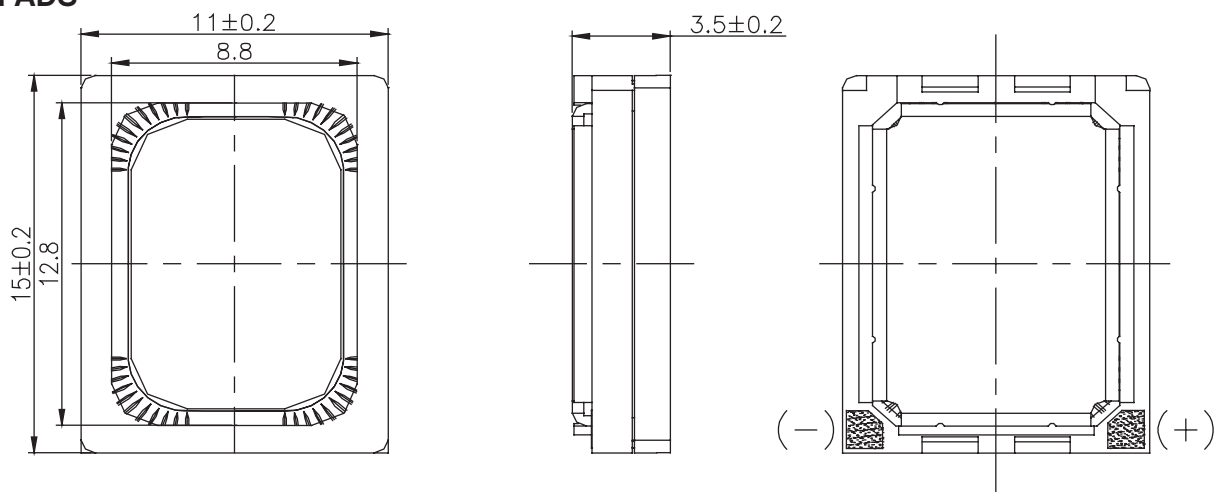
units: mm

tolerance:  $\pm 0.2$  mm

### SPRING CONTACTS



### SOLDER PADS

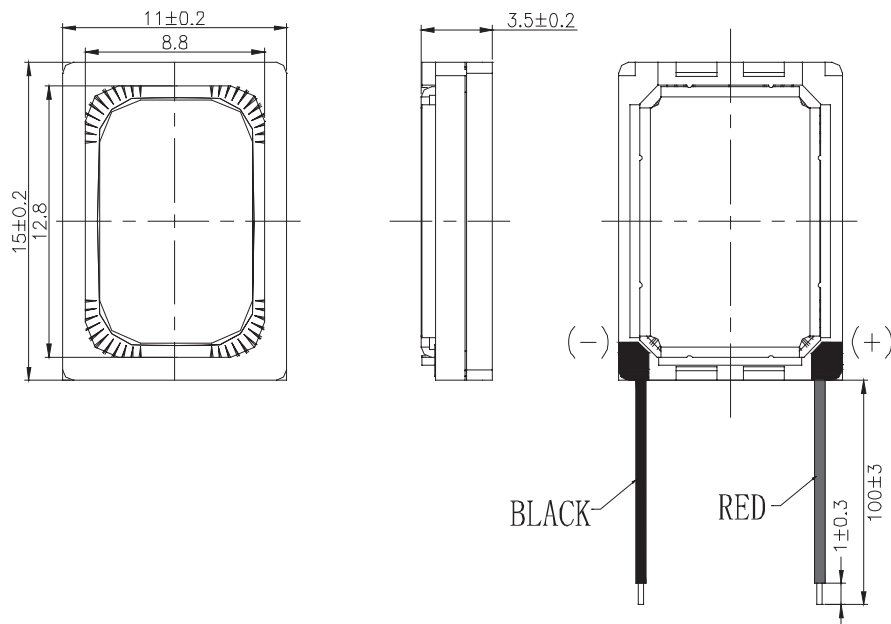


## MECHANICAL DRAWINGS (CONTINUED)

units: mm  
tolerance:  $\pm 0.2$  mm

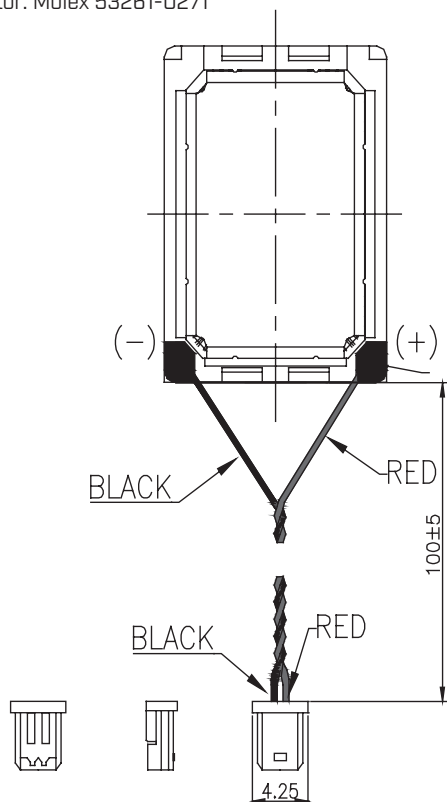
### WIRE LEADS, NO CONNECTOR

wire: UL 1571 32 AWG



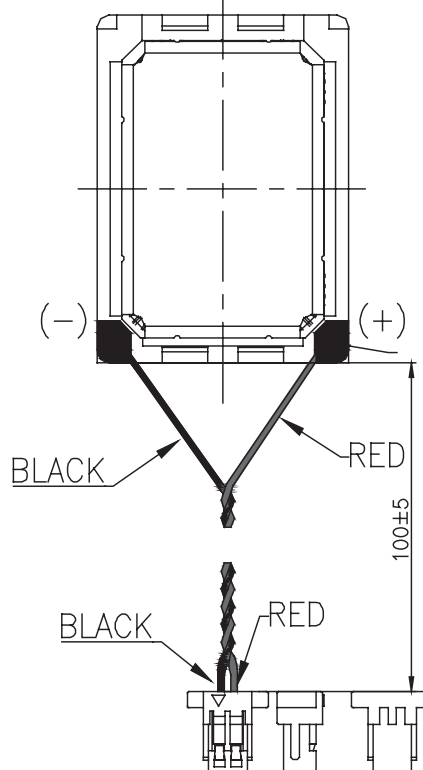
### WIRE LEADS WITH MOLEX CONNECTOR

wire: UL 1571 30 AWG  
connector: Molex 51021-0200  
mating connector: Molex 53261-0271



### WIRE LEADS WITH JST CONNECTOR

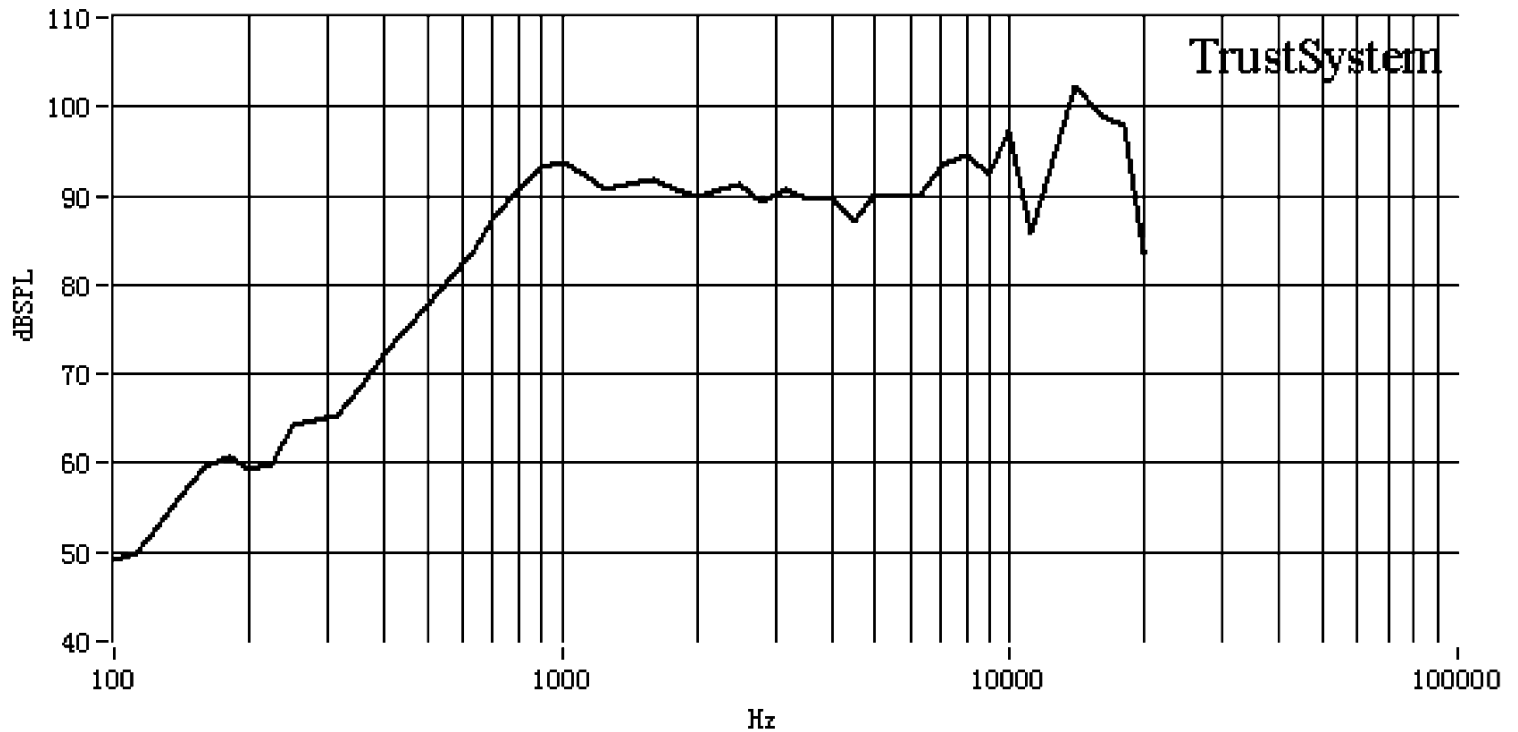
wire: UL 1571 30 AWG  
connector: JST SHR-02V-S-B  
mating connector: JST BM02B-SRSS-TB



## RESPONSE CURVES

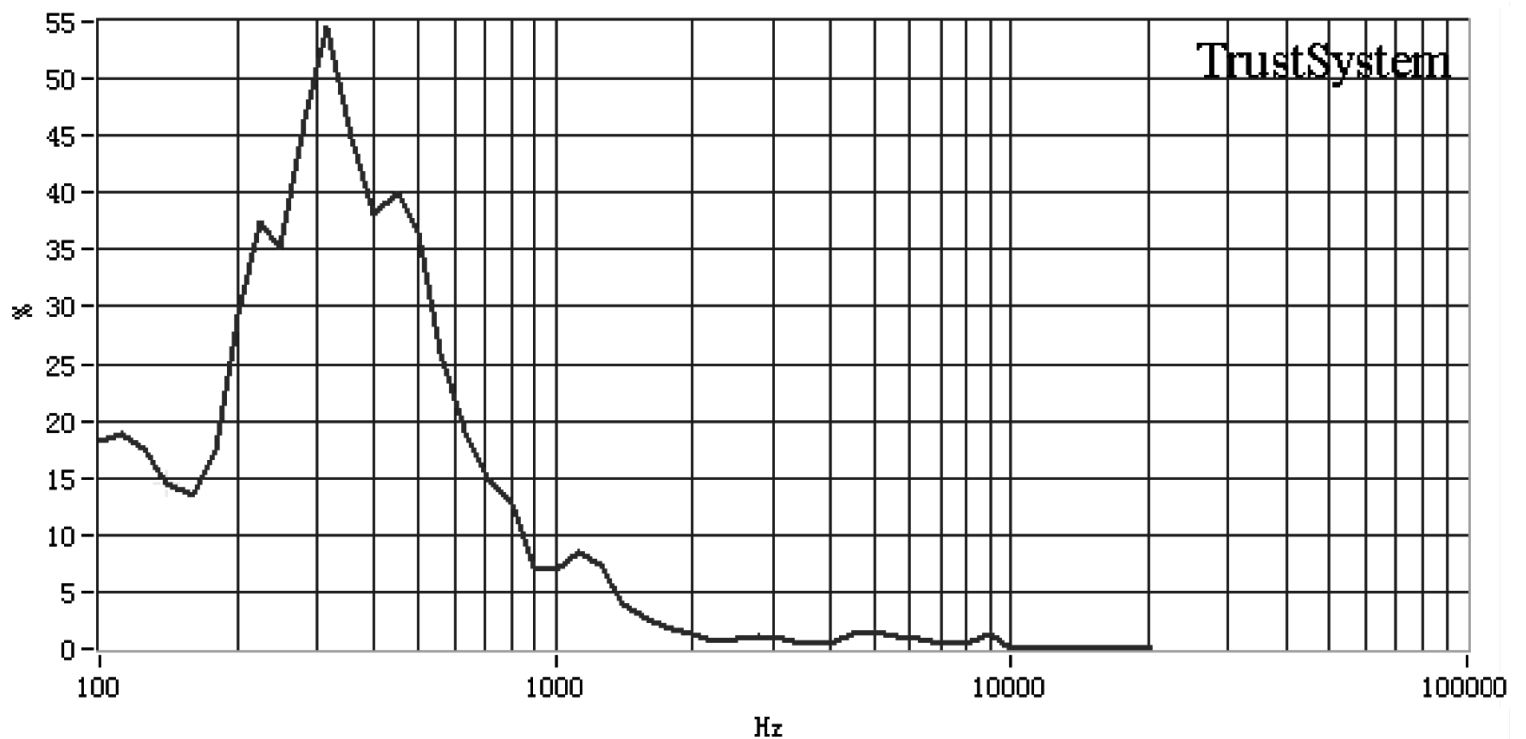
### Frequency Response Curve

Test Conditions: 2.37 Vrms / 10 cm in 1 cc box



### Total Harmonic Distortion Curve

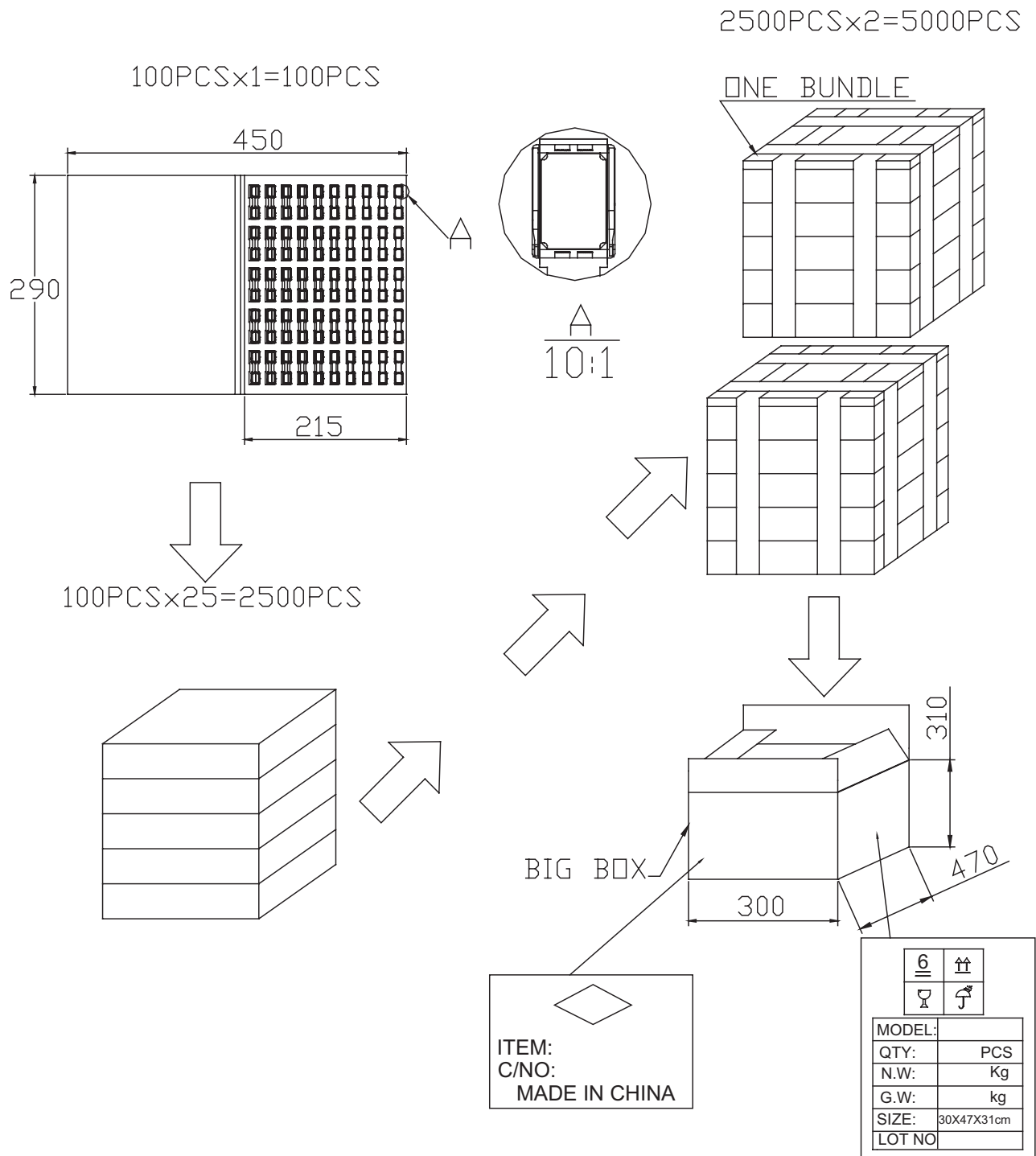
Test Conditions: 2.37 Vrms / 10 cm in 1 cc box



## PACKAGING

units: mm

Tray Size: 290 x 215 mm  
Tray QTY: 100 pcs per tray  
Carton Size: 470 x 300 x 310 mm  
Carton QTY: 5,000 pcs per carton



## REVISION HISTORY

| rev. | description                                              | date       |
|------|----------------------------------------------------------|------------|
| 1.0  | initial release                                          | 03/22/2018 |
| 1.01 | brand update                                             | 01/30/2020 |
| 1.02 | added Molex and JST connector options, updated packaging | 10/23/2020 |
| 1.03 | 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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