

**SERIES:** CMS-151125-078X | **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, in 1 cc box                                      | 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<br>at 2.37 Vrms in 1 cc box, 10 cm       | 560<br>800 | 700<br>1,000 | 840<br>1,200 | Hz<br>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 800~1200 Hz, 2.37 Vrms, 10 cm<br>at 1,201~5,000 Hz, 2.37 Vrms, 10 cm |            |              | 15<br>10     | %<br>%       |
| 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 2.5   |            |              |              | mm           |
| magnet                  | Nd-Fe-B   |            |              |              |              |
| cone material           | PEEK  |            |              |              |              |
| weight                  |   |            | 1.5          |              | g            |
| operating temperature   |   | -20        |              | 70           | $^{\circ}$ C |
| storage temperature     |   | -30        |              | 85           | $^{\circ}$ C |
| hand soldering          | for maximum 3 seconds (N/A for spring contacts)                         |            |              | 380          | $^{\circ}$ C |
| RoHS                    | yes   |            |              |              |              |

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

**PART NUMBER KEY****CMS-151125-078 XX**

Base Number

Termination Options:

S = spring contacts

SP = solder pads

L100 = wire leads, no connector

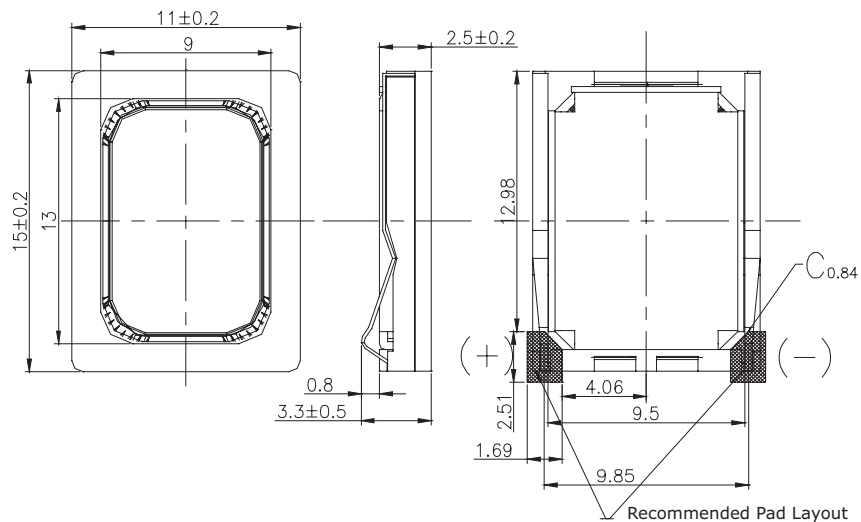
L100A = wire leads with Molex housing 51021-0200

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

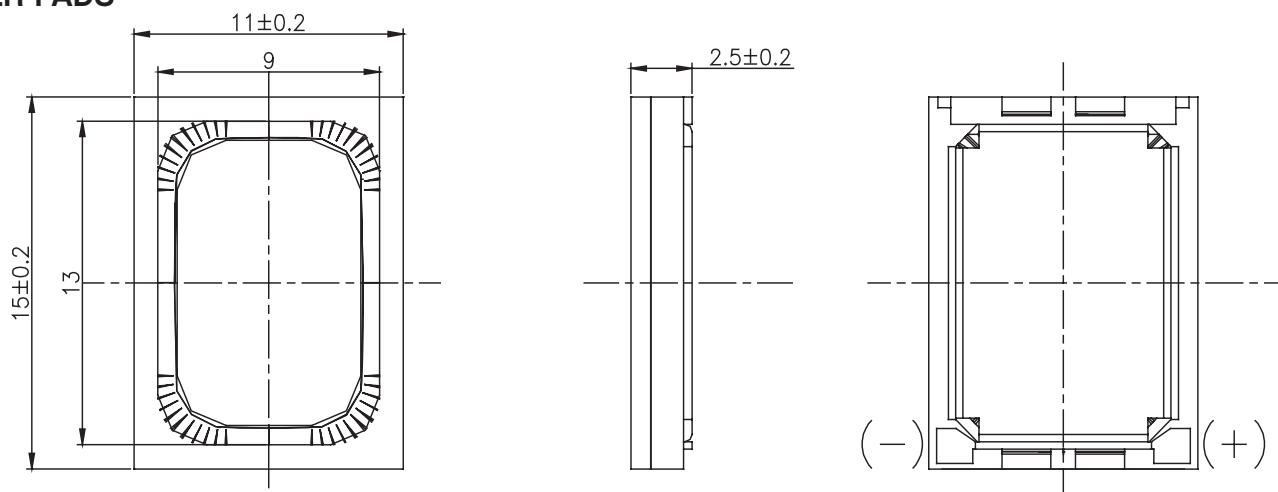
## MECHANICAL DRAWINGS

units: mm  
tolerance:  $\pm 0.2$  mm

### SPRING CONTACTS



### SOLDER PADS

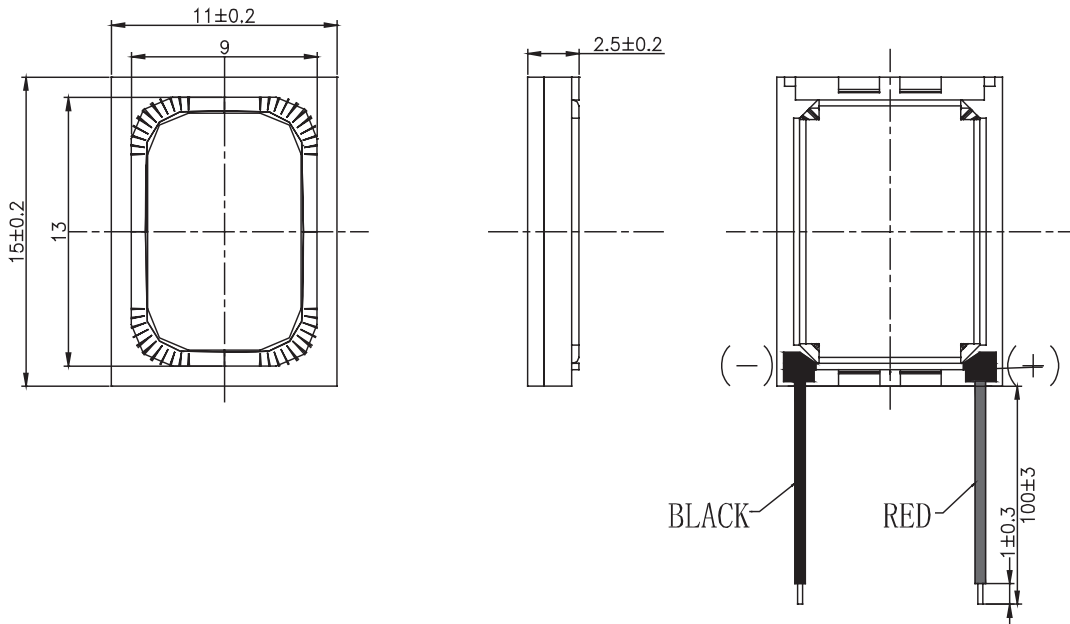


## MECHANICAL DRAWINGS (CONTINUED)

units: mm  
tolerance:  $\pm 0.2$  mm

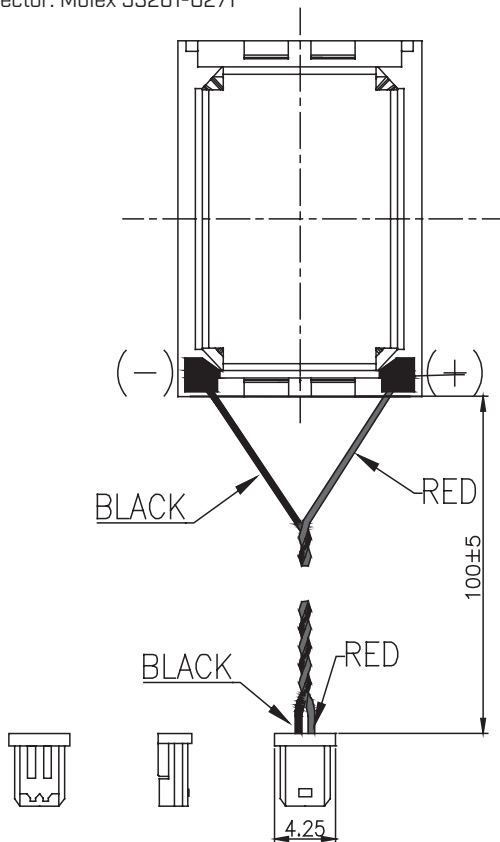
### WIRE LEADS, NO CONNECTOR

wire: UL 1571 32 AWG



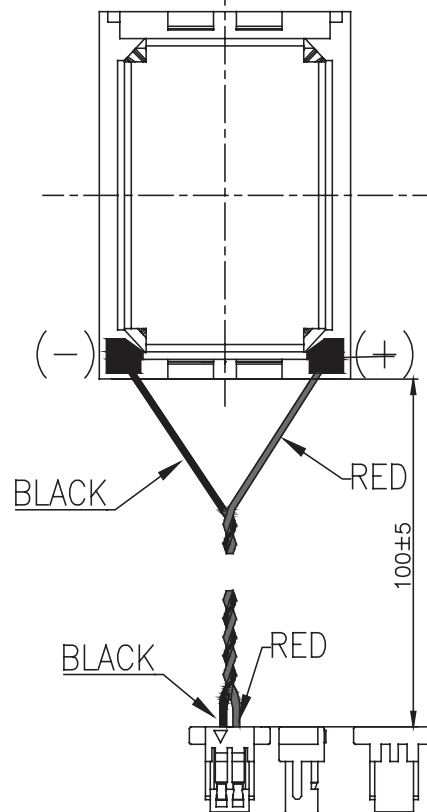
### WIRE LEADS WITH MOLEX CONNECTOR

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



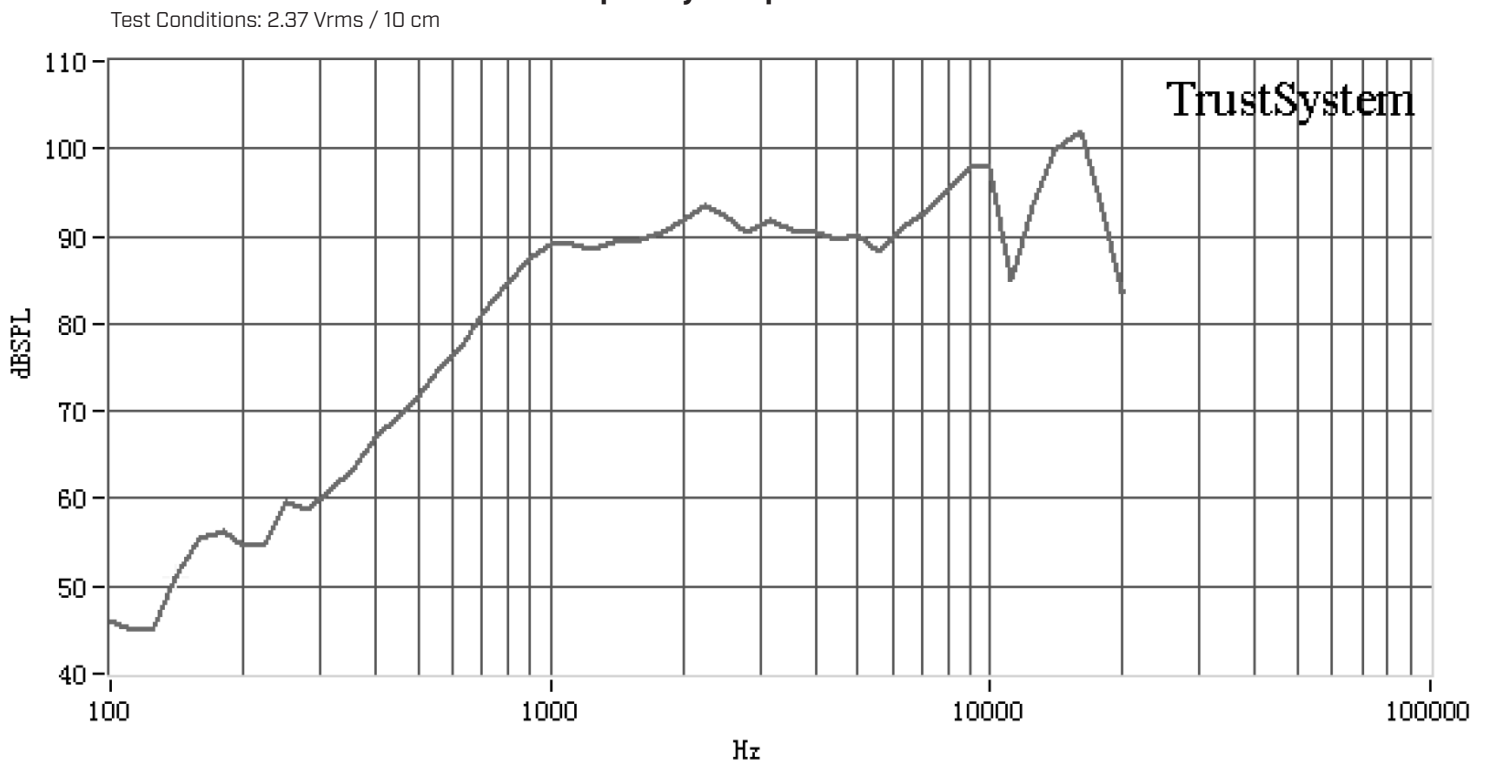
### WIRE LEADS WITH JST CONNECTOR

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

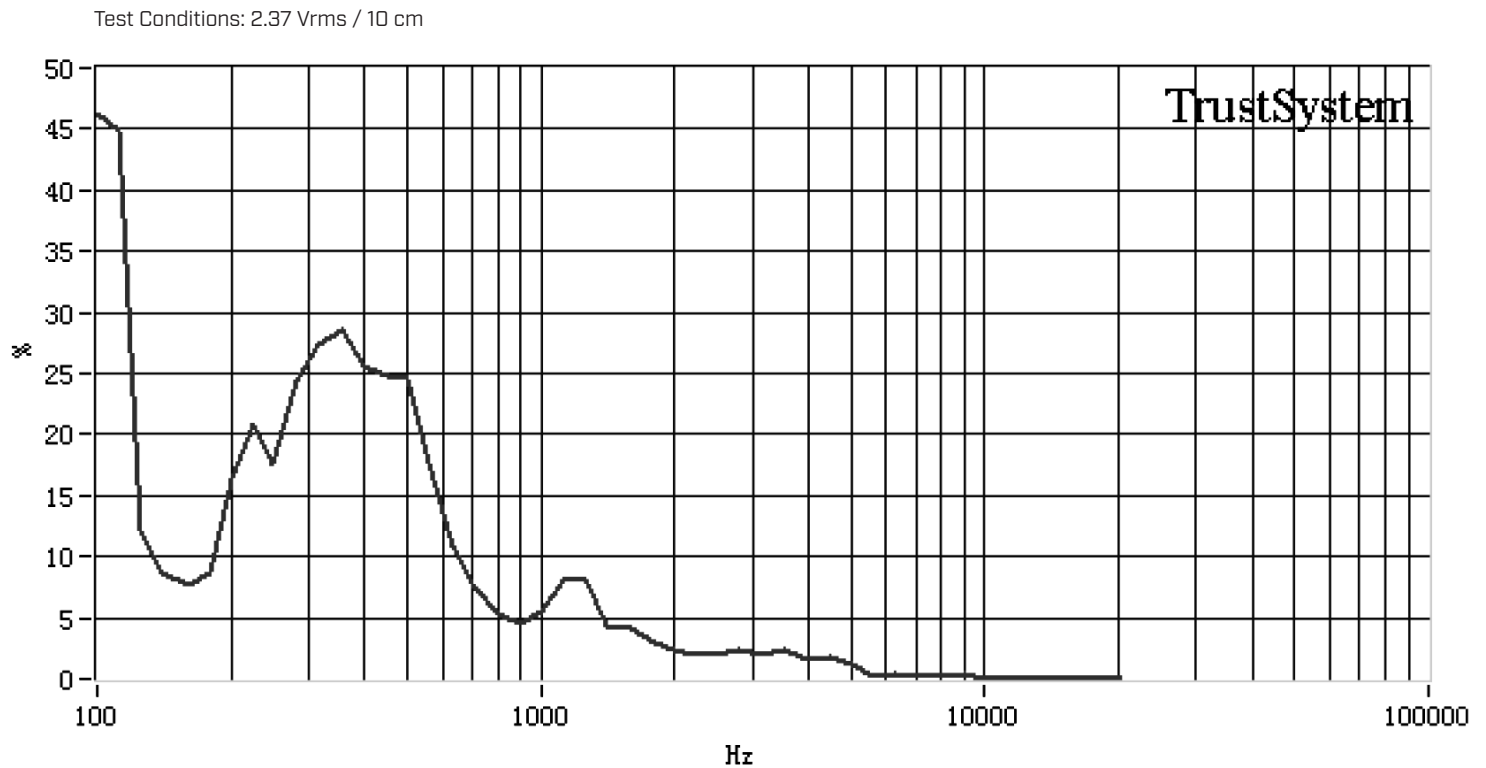


## RESPONSE CURVES

### Frequency Response Curve



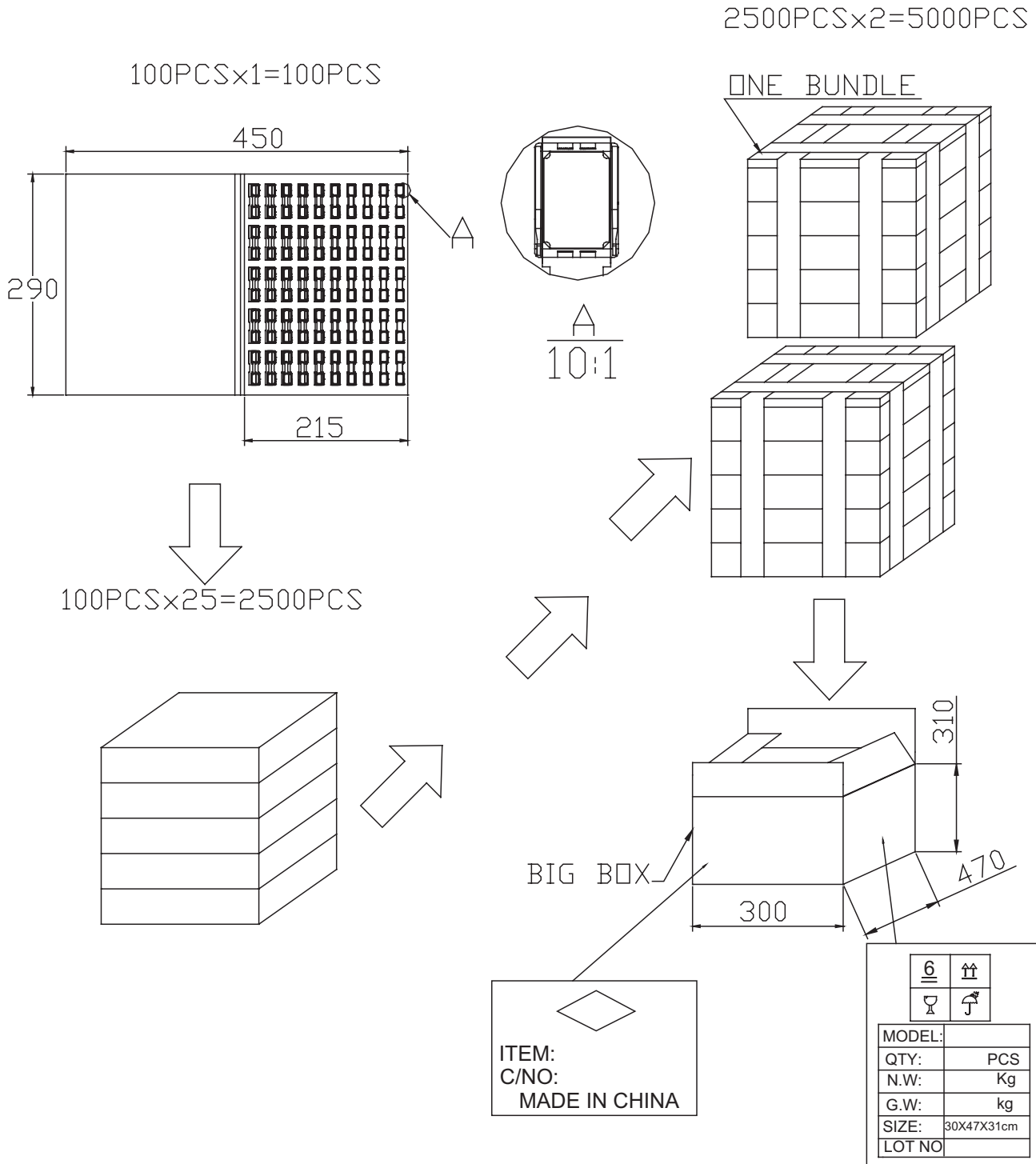
### Total Harmonic Distortion Curve



## 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  | 03/23/2018 |
| 1.01 | updated drawings   | 06/08/2018 |
| 1.02 | brand update   | 01/23/2020 |
| 1.03 | added Molex and JST connector options, updated packaging | 10/27/2020 |
| 1.04 | 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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