# **CUI** DEVICES

date 10/23/2020

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SERIES: CMS-23558N-L152 | DESCRIPTION: SPEAKER

#### **FEATURES**

- 550 Hz resonant frequency
- Nd-Fe-B magnet
- wire leads with connector options





#### **SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input power	maximum power: IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp		1.0	1.5	W
impedance	at 2.0 kHz	6.8	8	9.2	Ω
resonant frequency (Fo)	at 1.0 V	440	550	660	Hz
frequency response	output SPL -10 dB	Fo		20,000	Hz
sound pressure level	at 1.0 W, 0.1 m ave, at 0.8, 1.0, 1.2, 1.5 kHz at 1.0 W, 0.5 m ave, at 0.8, 1.0, 1.2, 1.5 kHz	91 77	94 80	97 83	dB dB
distortion	at 1.0 kHz, 1.0 W			10	%
buzz, rattle, etc.	must be normal at sine wave between Fo ~ 20,000 Hz		2.83		V
dimensions	Ø23 x 5.5				mm
magnet	Nd-Fe-B				
material	metal				
cone material	mylar				
terminal	wire leads				
weight			4.5		g
operating temperature		-20		55	°C
storage temperature		-30		70	°C
hand soldering	for maximum 3 seconds	370	380	390	°C
RoHS	yes				

1. All specifications measured at  $5\sim35^{\circ}$ C, humidity at  $45\sim85\%$ , under  $86\sim106$  kPa pressure, unless otherwise noted.

#### **PART NUMBER KEY**



Base Number

Termination Options:

"blank" = wire leads, no connector

A = wire leads with Molex housing 51021-0200 B = wire leads with JST housing SHR-02V-S-B

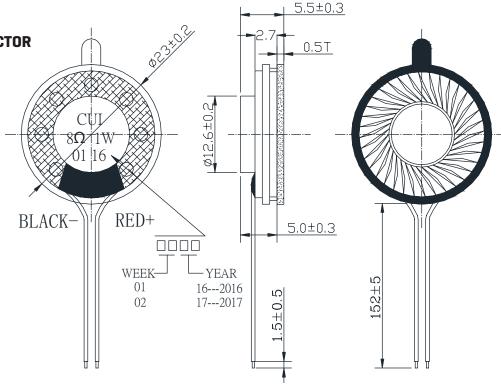
#### **MECHANICAL DRAWINGS**

units: mm

tolerance: ±0.2 mm

#### **WIRE LEADS, NO CONNECTOR**

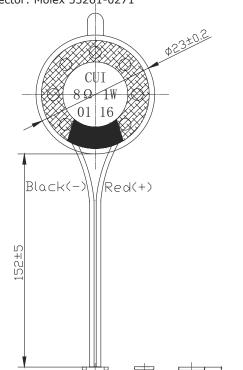
wire: UL 1007 28 AWG



#### **WIRE LEADS WITH MOLEX CONNECTOR**

wire: UL 1571 28 AWG

connector: Molex 51021-0200 mating connector: Molex 53261-0271

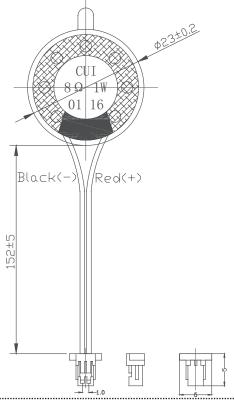


#### **WIRE LEADS WITH JST CONNECTOR**

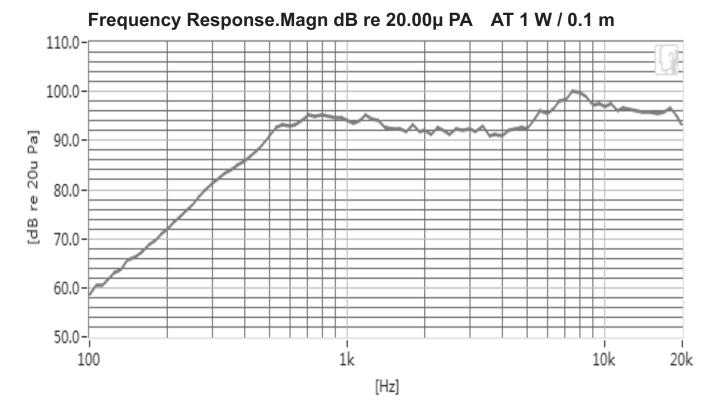
wire: UL 1571 28 AWG

connector: JST SHR-02V-S-B

mating connector: JST BM02B-SRSS-TB



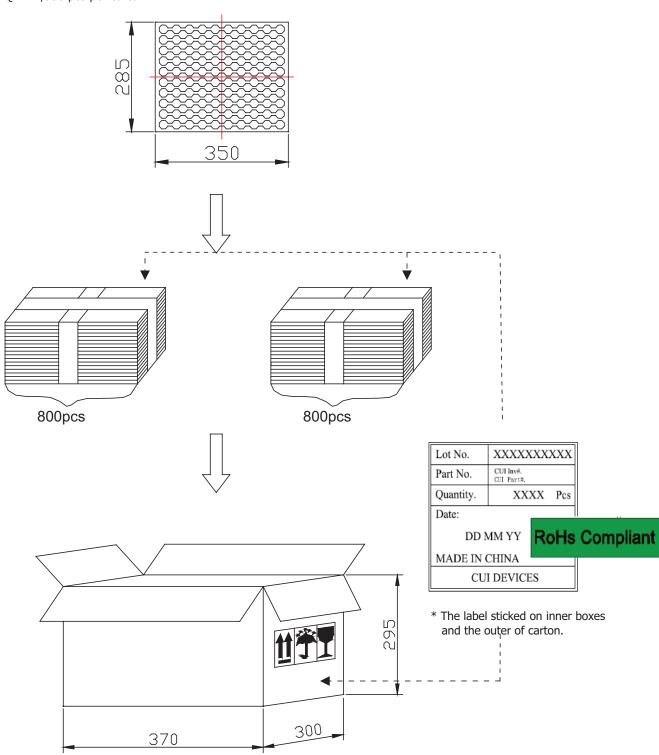
### FREQUENCY RESPONSE CORVE



#### **PACKAGING**

units: mm

Tray Size: 350 x 285 x 15 mm Carton Size: 370 x 300 x 295 mm Tray QTY: 100 pcs per tray Carton QTY: 1,600 pcs per carton



#### **REVISION HISTORY**

rev.	description	date	
1.0	initial release	06/28/2016	
1.01	brand update	01/22/2020	
1.02	added Molex and JST connector options	10/23/2020	

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

## **CUI** DEVICES

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