

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

- 550 Hz resonant frequency
- Nd-Fe-B magnet
- wire leads with connector options
- adhesive tape for mounting

**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	91	94	97	dB
	at 1.0 W, 0.5 m ave, at 0.8, 1.0, 1.2, 1.5 kHz	77	80	83	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	$\varnothing 23 \times 5.5$				mm
magnet	Nd-Fe-B				
material	metal				
cone material	PEI				
terminal	wire leads				
weight			4.5		g
operating temperature		-20		55	$^{\circ}\text{C}$
storage temperature		-30		70	$^{\circ}\text{C}$
hand soldering	for maximum 3 seconds	370	380	390	$^{\circ}\text{C}$
RoHS	yes				

Notes: 1. All specifications measured at 5-35 $^{\circ}\text{C}$, humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

PART NUMBER KEY**CMS-23558N-L152 X**

Base Number

Termination Options:

"blank" = wire leads, no connector

A = wire leads with Molex housing 51021-0200

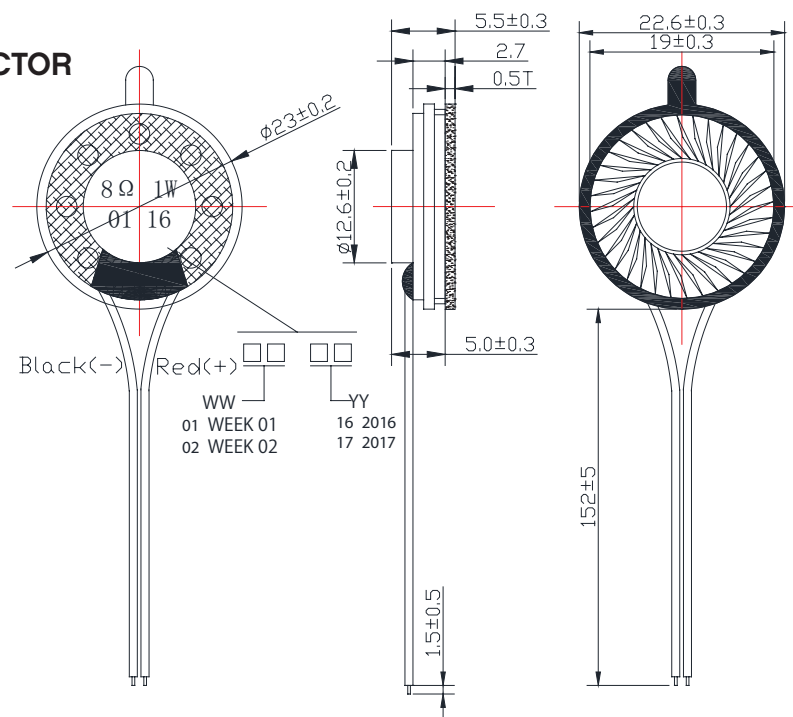
B = wire leads with JST housing SHR-02V-S-B

MECHANICAL DRAWINGS

units: mm
tolerance: ± 0.2 mm

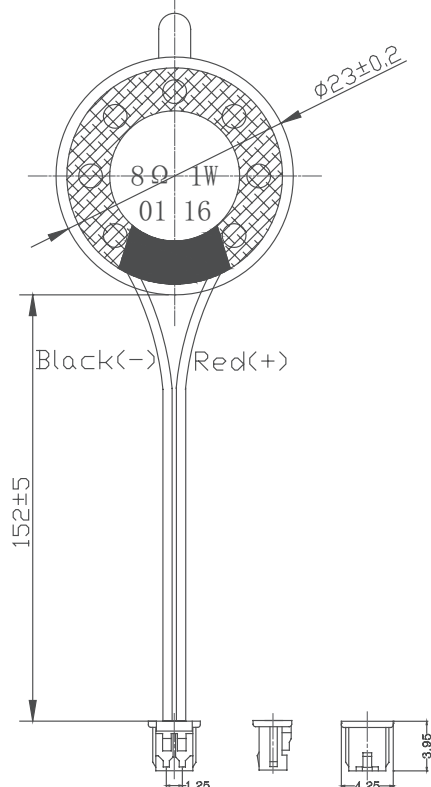
WIRE LEADS, NO CONNECTOR

wire: UL 1007 28 AWG



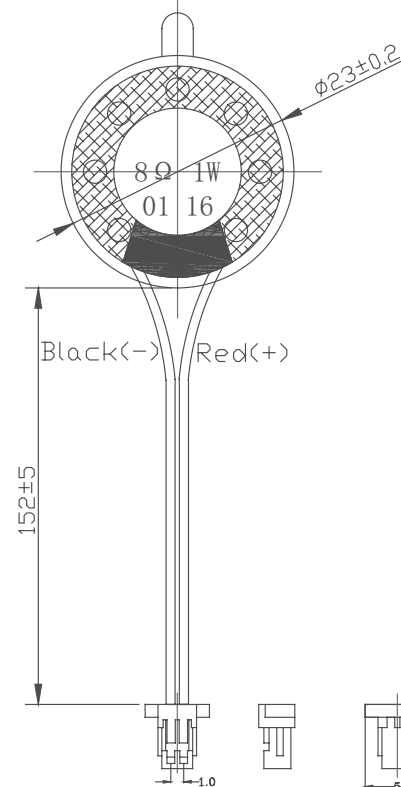
WIRE LEADS WITH MOLEX CONNECTOR

wire: UL 1571 28 AWG
connector: Molex 51021-0200
mating connector: Molex 53261-0271

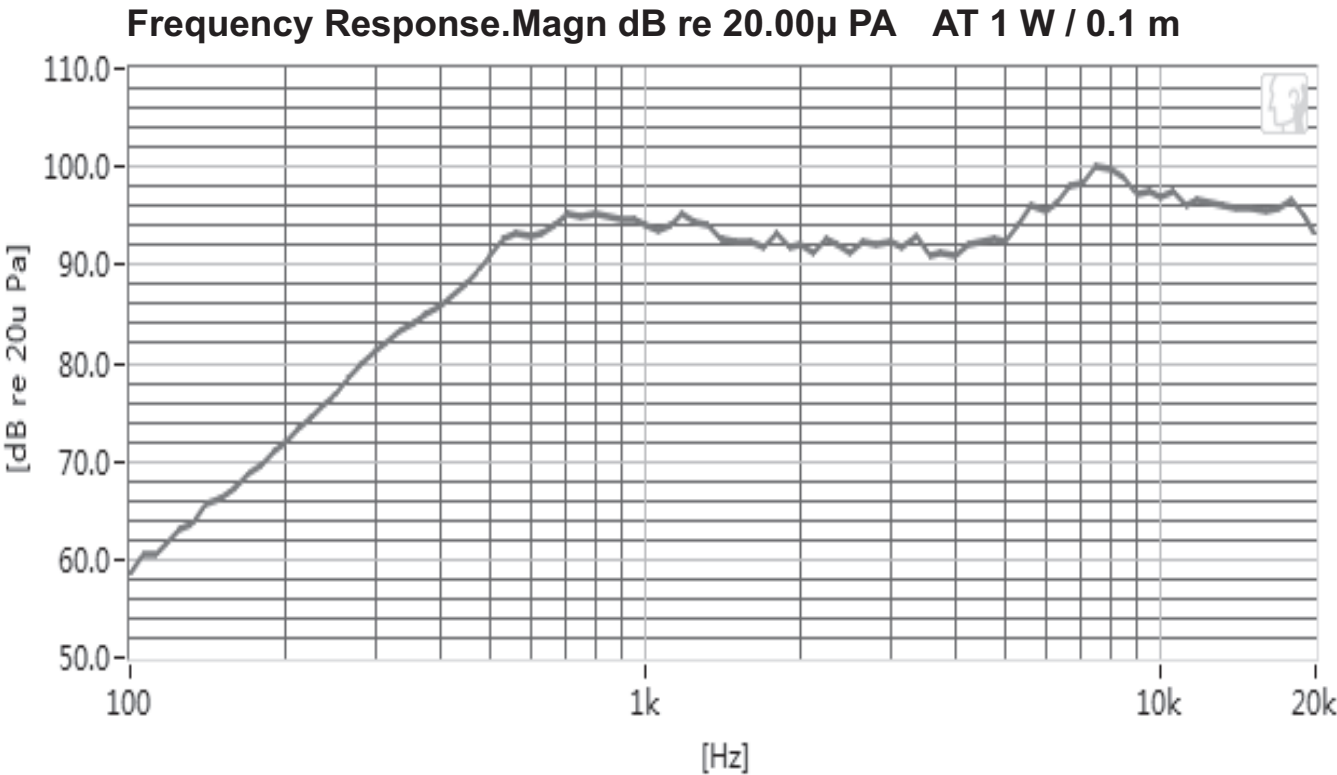


WIRE LEADS WITH JST CONNECTOR

wire: UL 1571 28 AWG
connector: JST SHR-02V-S-B
mating connector: JST BM02B-SRSS-TB



FREQUENCY RESPONSE CURVE



THIELE-SMALL PARAMETERS

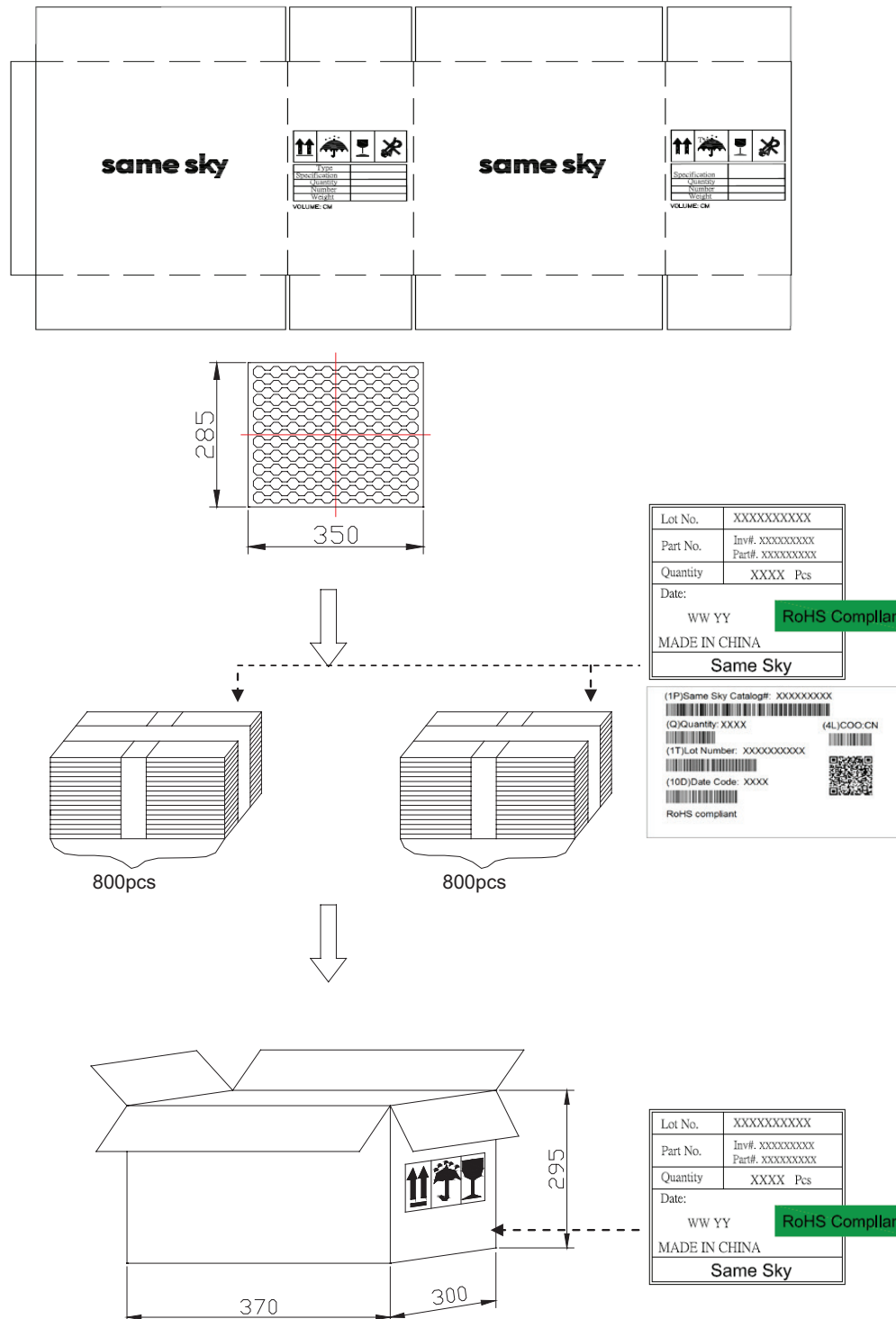
parameter	conditions/description	typ
Mechanical Q Factor	Qms	2.081
Electrical Q Factor	Qes	10.349
Total Q Factor	Qts	1.732
Compliance Equivalent Volume	Vas	0.0113

Notes: 2. Results represent typical performance in Free Air conditions.

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
1.03	logo, datasheet style update	08/05/2022
1.04	added feature for adhesive tape	07/31/2023
1.05	CUI Devices rebranded to Same Sky	09/11/2024
1.06	added Thiele-Small Parameters	02/26/2025

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



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