CUI Devices is now Same Sky! Learn More

SERIES: CMS-28528N-L152 | DESCRIPTION: SPEAKER

FEATURES

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

RoHS

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input power	maximum power: IEC-60268-5, filter 50s on/120s off, 10 cycles at room temp		2.0	3.0	W
impedance	at 2.0 kHz, 1.0 V	6.8	8	9.2	Ω
resonant frequency (Fo)	at 1.0 V	600	750	900	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 2.0 W, 0.5 m ave, at 0.8, 1.0, 1.2, 1.5 kHz	96 85	99 88	102 91	dB dB
distortion	at 1.0 kHz, 1.0 W			5	%
buzz, rattle, etc.	must be normal at sine wave between Fo ~ 20,000 Hz		4.0		V
dimensions	Ø28 x 5.2				mm
magnet	Nd-Fe-B				
material	SPCC				
cone material	PET				
terminal	wire leads				
weight			7.8		g
operating temperature		-20		55	°C
storage temperature		-30		60	°C
hand soldering	for maximum 3 seconds	370	380	390	°C
RoHS	yes				

Notes: 1. All specifications measured at 15~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

PART NUMBER KEY

CMS-28528N-L152 **X**

Base Number

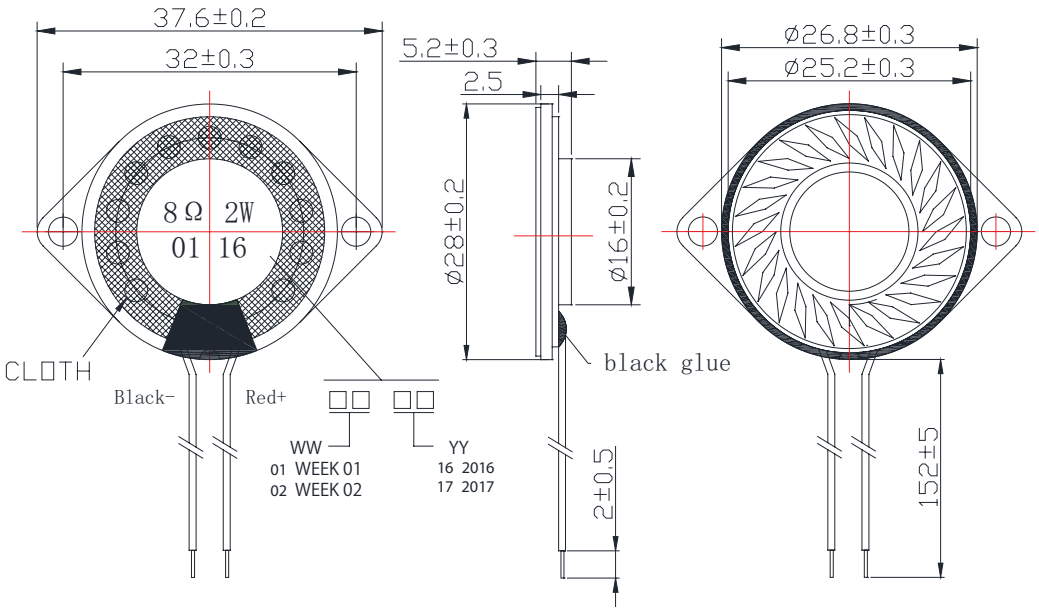
Termination Options:
"blank" = wire leads, no connector
A = wire leads with Molex housing 51021-0200
B = wire leads with JST housing SHR-02V-S-B

MECHANICAL DRAWINGS

units: mm
tolerance: ±0.2 mm

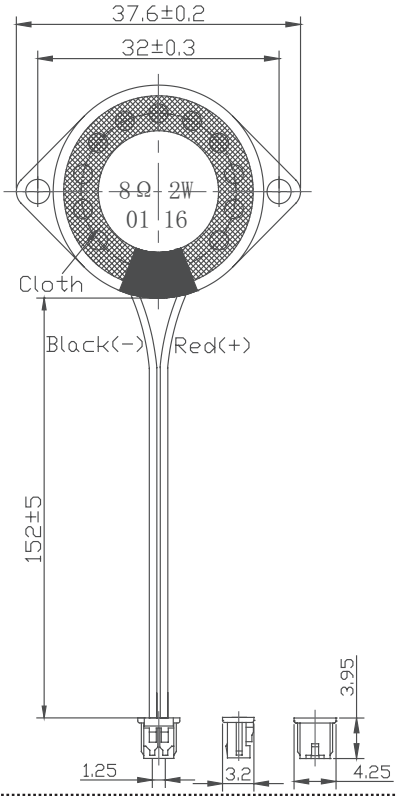
WIRE LEADS, NO CONNECTOR

wire: UL 1007 28 AWG



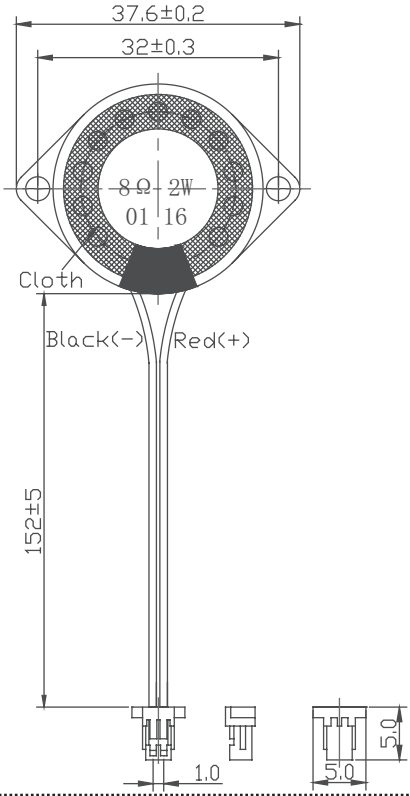
WIRE LEADS WITH MOLEX CONNECTOR

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

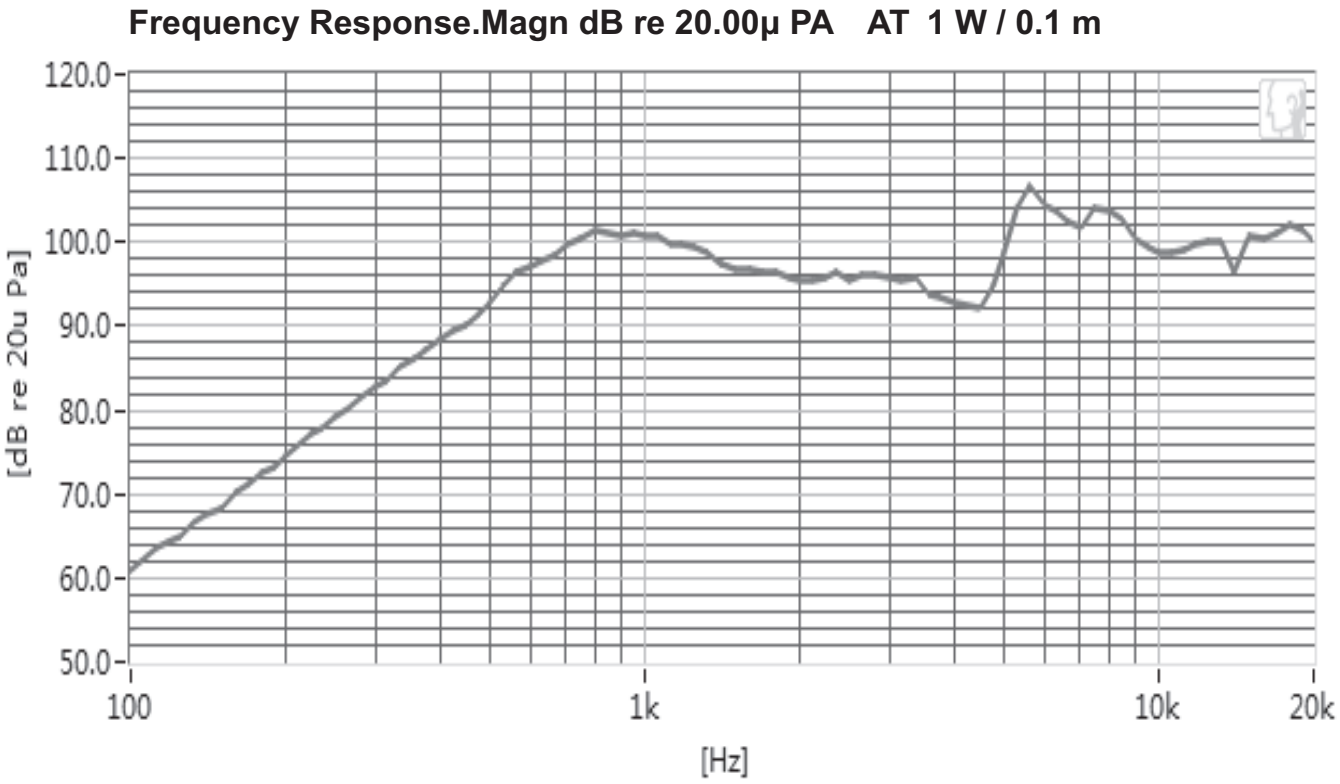


WIRE LEADS WITH JST CONNECTOR

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



FREQUENCY RESPONSE CURVE



THIELE-SMALL PARAMETERS

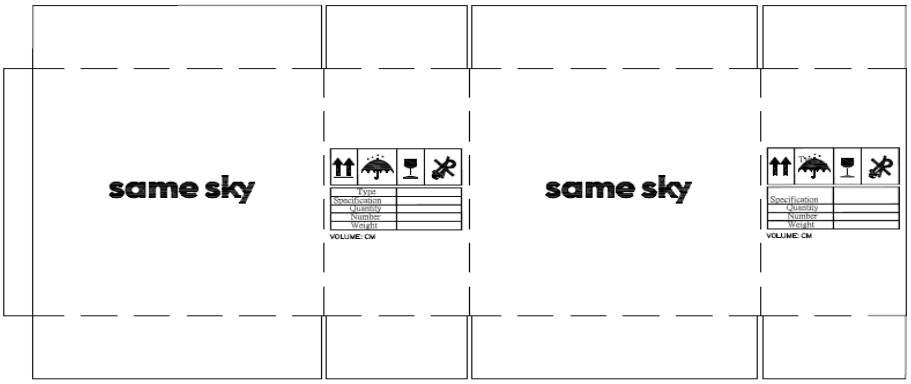
parameter	conditions/description	typ
Mechanical Q Factor	Qms	5.191
Electrical Q Factor	Qes	7.689
Total Q Factor	Qts	3.099
Compliance Equivalent Volume	Vas	0.0073

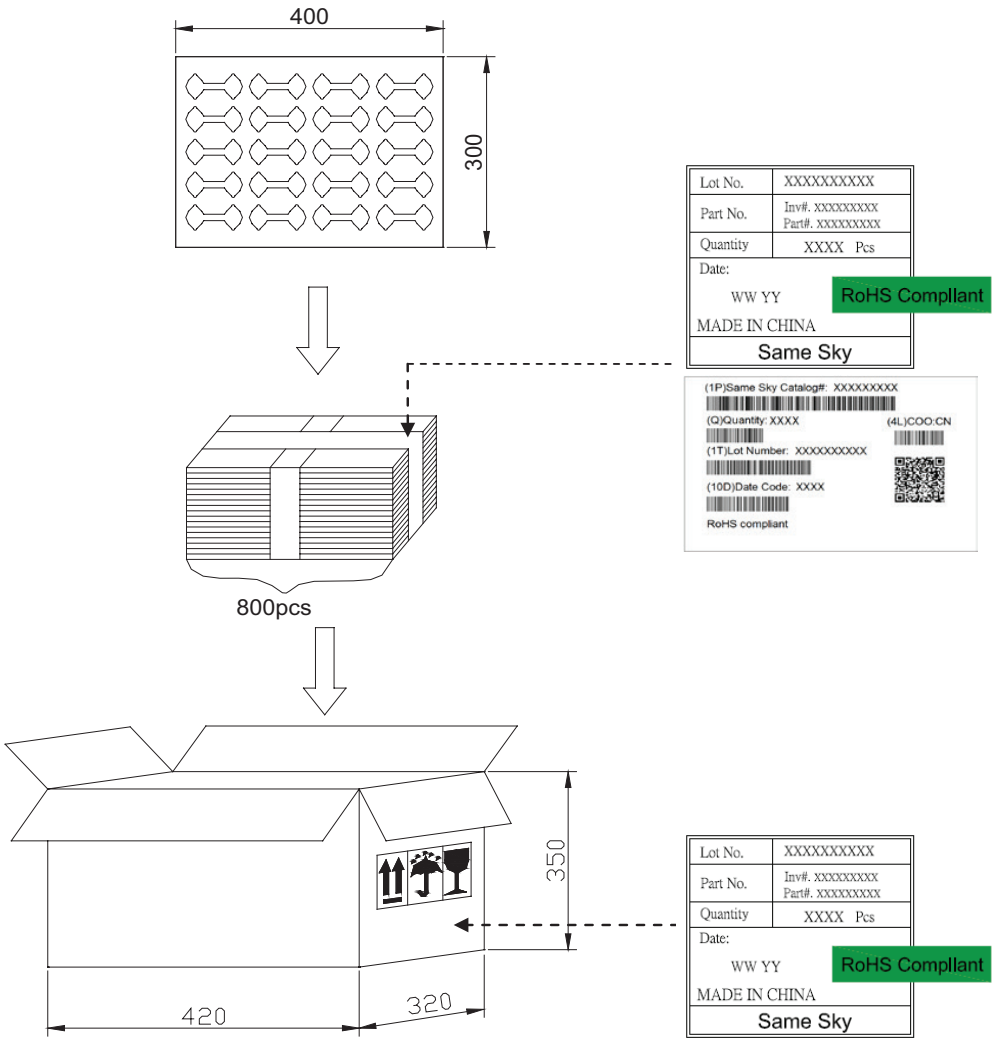
Notes: 2. Results represent typical performance in Free Air conditions.

PACKAGING

units: mm

Tray Size: 400 x 300 x 16 mm
Carton Size: 420 x 320 x 350 mm
Tray QTY: 40 pcs per tray
Carton QTY: 800 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	CUI Devices rebranded to Same Sky	09/11/2024
1.05	added Thiele-Small Parameters	02/26/2025

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

Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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