

**MODEL:** CSS-50508N | **DESCRIPTION:** SPEAKER**FEATURES**

- paper cone
- 380 Hz resonant frequency
- Nd-Fe-B magnet

**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		0.25	0.5	W
impedance	at 800 Hz	6.8	8	9.2	Ω
resonant frequency (Fo)	at 1.0 V	304	380	456	Hz
frequency response	output SPL -10 dB	Fo		3,200	Hz
sound pressure level	at 0.25 W, 0.5 m ave, at 1.0, 1.4, 1.7, 2.0 kHz	82	85	88	dB
distortion	at 1.0 kHz, 0.25 W			10	%
buzz, rattle, etc.	must be normal at sine wave between Fo ~ 20,000 Hz		1.41		V
dimensions	50.5 x 50.5 x 17.2				mm
magnet	Nd-Fe-B				
material	metal				
cone material	paper				
terminal	solder terminals				
weight			52		g
operating temperature		-20		55	$^{\circ}\text{C}$
storage temperature		-30		70	$^{\circ}\text{C}$
RoHS	yes				

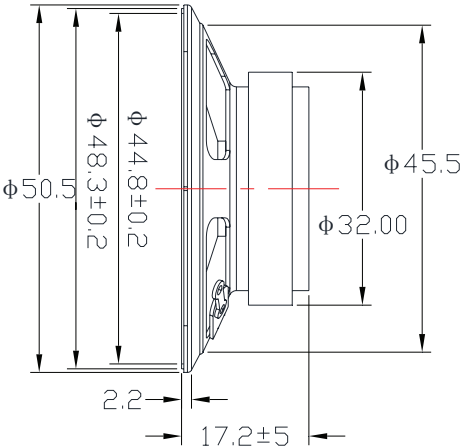
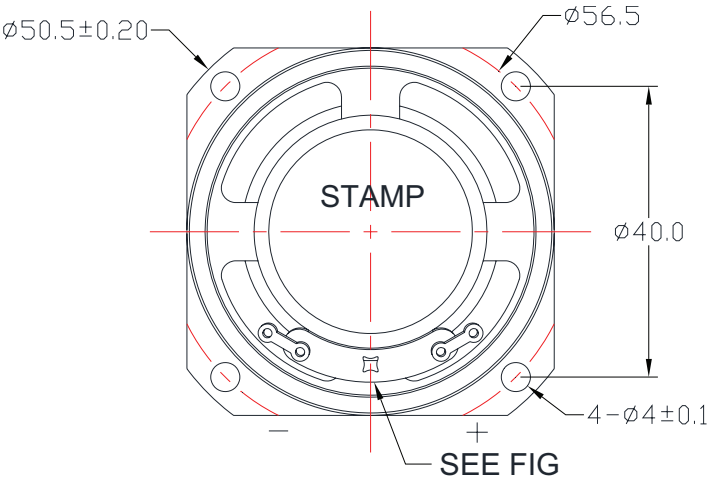
Notes: 1. All specifications measured at 15~35 $^{\circ}\text{C}$, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for 3 $\pm$ 1 seconds	360	370	380	$^{\circ}\text{C}$

MECHANICAL DRAWING

units: mm
tolerance: ± 0.2 mm



STAMP	
SAME SKY	
01 24	
8 Ω 0.25W	
STAMP DIRECTION IS FREE	

WW

01 WEEK 01

02 WEEK 02

YY

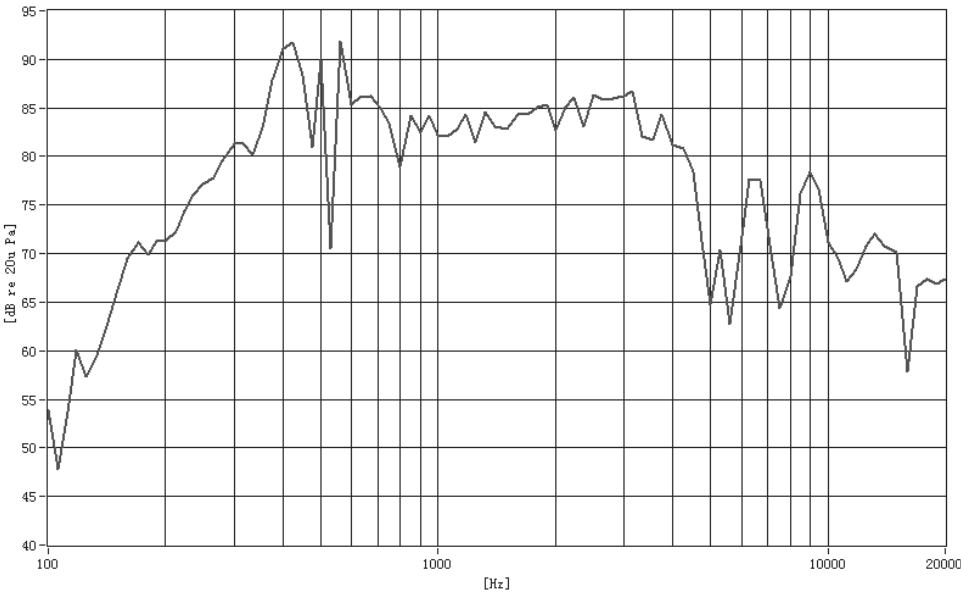
24---2024

25---2025

RESPONSE CURVES

Frequency Response Curve

Frequency Response.Magn dB re 20.00μ PA (at 0.25 W / 0.5 m)



THIELE-SMALL PARAMETERS

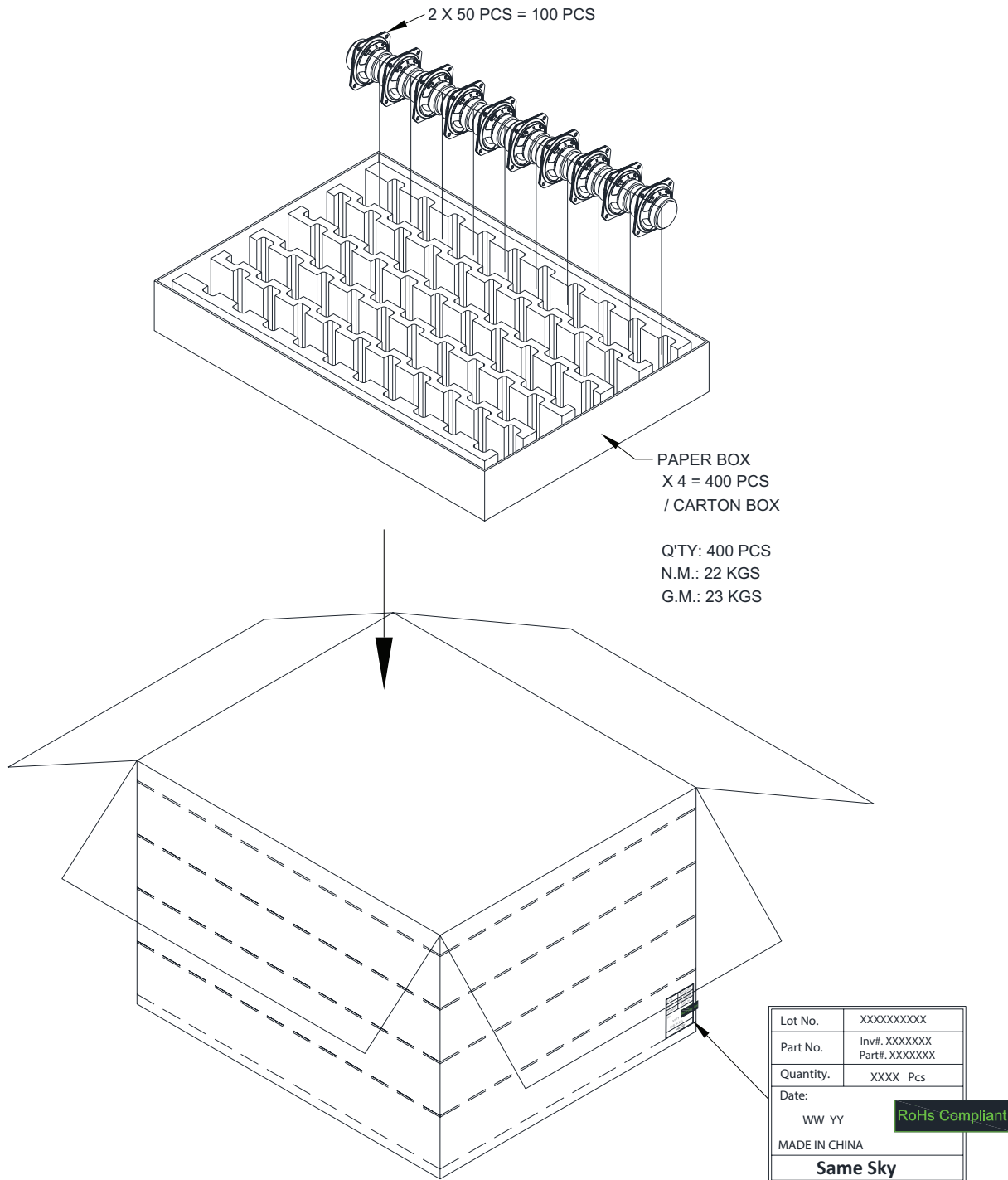
parameter	conditions/description	typ
Mechanical Q Factor	Qms	8.596
Electrical Q Factor	Qes	5.336
Total Q Factor	Qts	3.292
Compliance Equivalent Volume	Vas	0.0836

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

PACKAGING

units: mm

Carton Size: 478 x 303 x 222 mm
Paper box QTY: 100 pcs per box
Carton QTY: 400 pcs per carton



REVISION HISTORY

rev.	description	date
1.0	initial release	06/23/2016
1.01	brand update	01/23/2020
1.02	logo, datasheet style update	08/05/2022
1.03	CUI Devices rebranded to Same Sky	09/11/2024
1.04	added Thiele-Small Parameters	02/06/2025

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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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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