

**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.

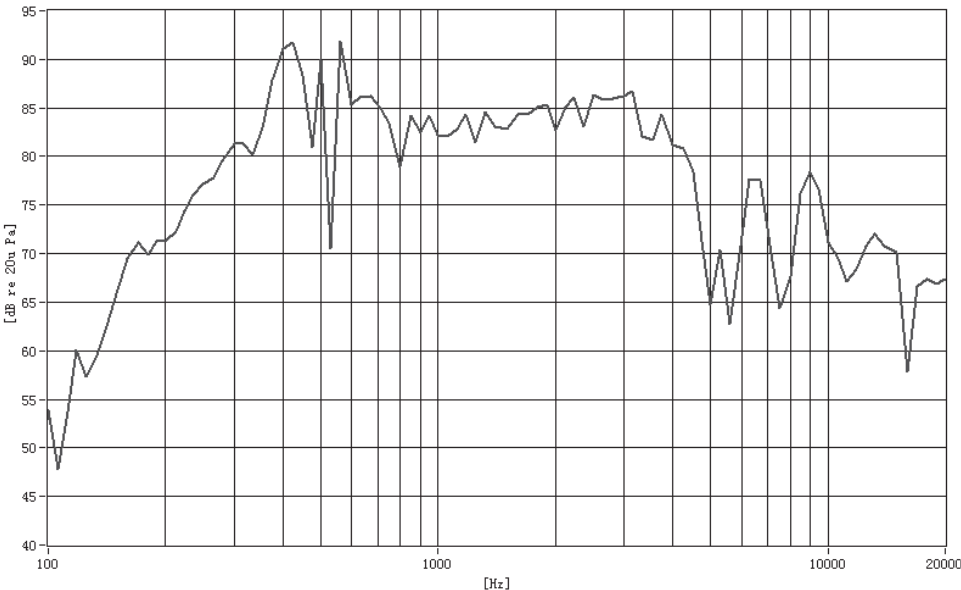
SOLDERABILITY

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

RESPONSE CURVES

Frequency Response Curve

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



THIELE-SMALL PARAMETERS

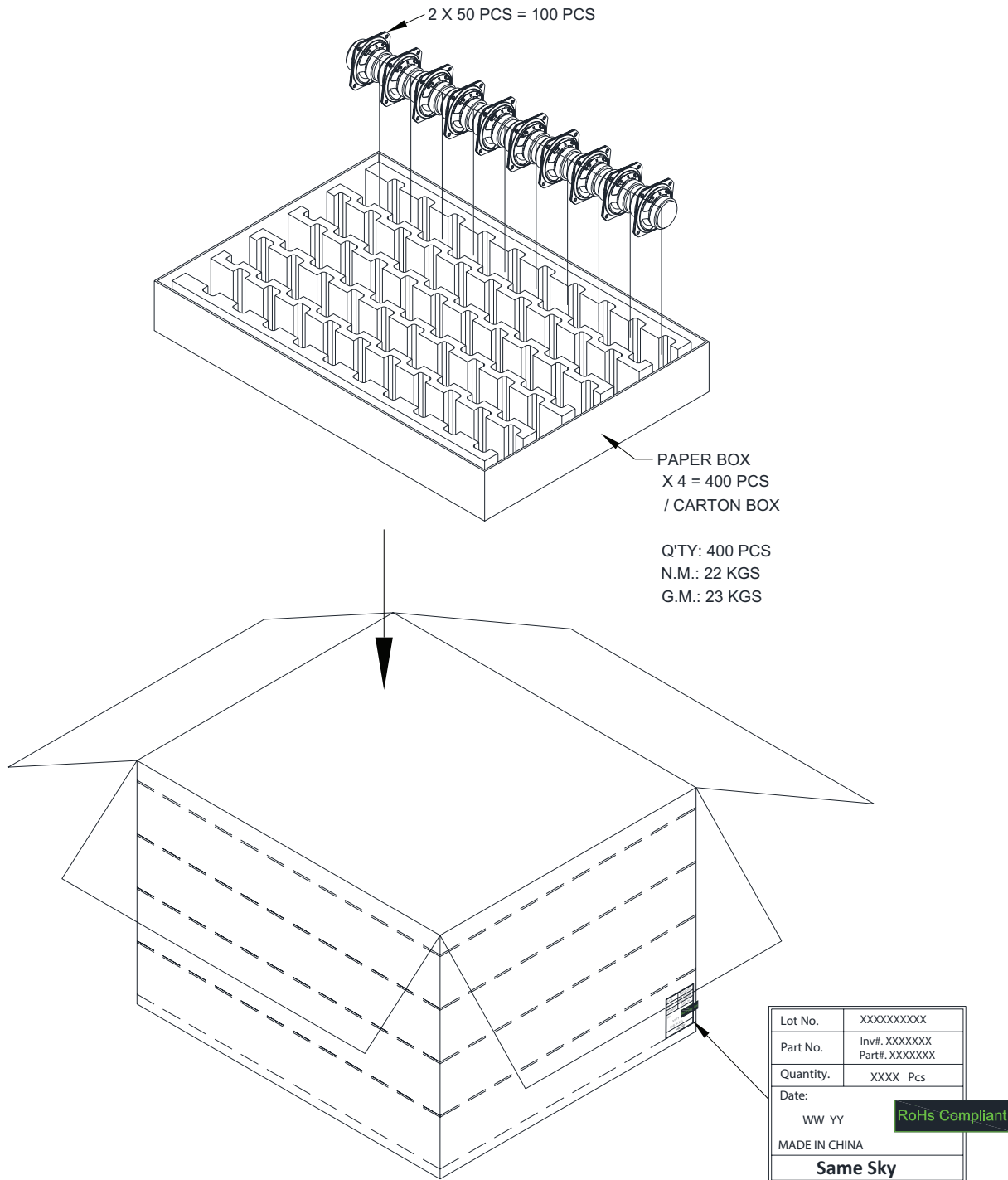
parameter	conditions/description	typ
Mechanical Q Factor	Qms	8.596
Electrical Q Factor	Qes	5.336
Total Q Factor	Qts	3.292
Compliance Equivalent Volume	Vas	0.0836

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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