



**MODEL:** CEM-1203(42) | **DESCRIPTION:** MAGNETIC BUZZER TRANSDUCER

## FEATURES

- through hole
- 3.5 V rated
- externally driven



## SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage	V <sub>o-p</sub>			3.5	V <sub>o-p</sub>
operating voltage	0V	3.0	5.0	V <sub>o-p</sub>	
current consumption	at rated voltage, 2,048 Hz square wave, ½ duty			35	mA
rated frequency			2,048		Hz
sound pressure level	at 10 cm [A-weight], rated voltage, 2,048 Hz square wave, ½ duty	85	95		dBA
coil resistance		36.0	42.0	48.0	Ω
dimensions	Ø12.0 x 8.5				mm
weight			1.5		g
material	PPO (black)				
terminal	pin type [Au plating]				
operating temperature		-20		60	°C
storage temperature		-30		70	°C
RoHS	yes				

Notes: 1. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

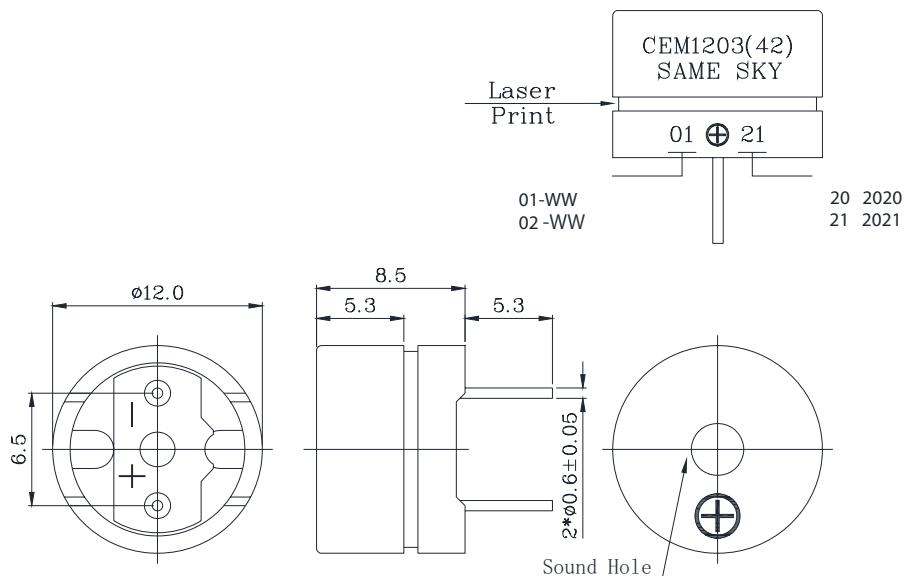
## SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering <sup>2</sup>	for maximum 2 seconds	330		380	°C

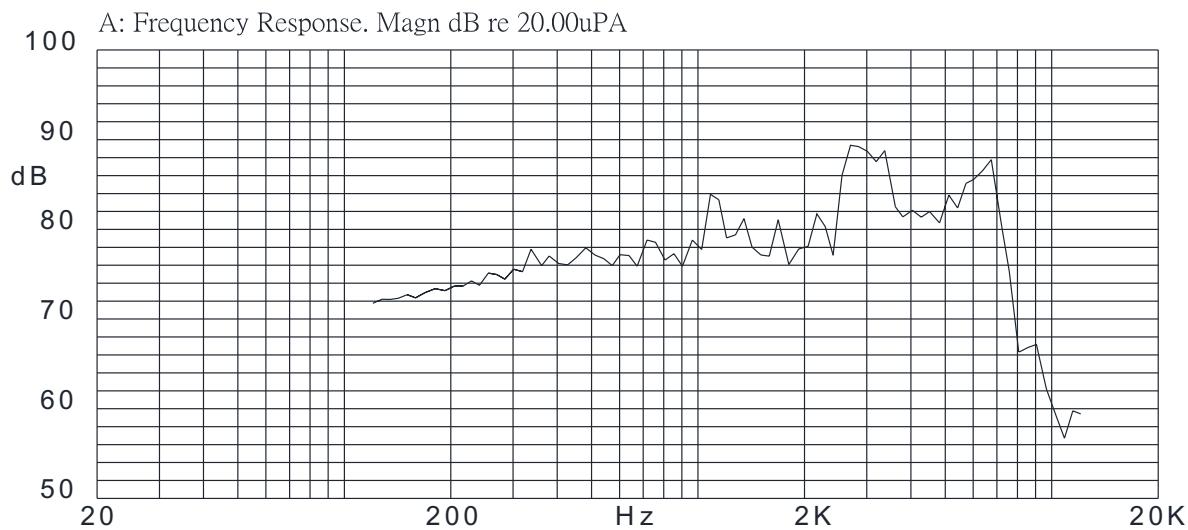
Notes: 2. Not recommended for wave soldering

## MECHANICAL DRAWING

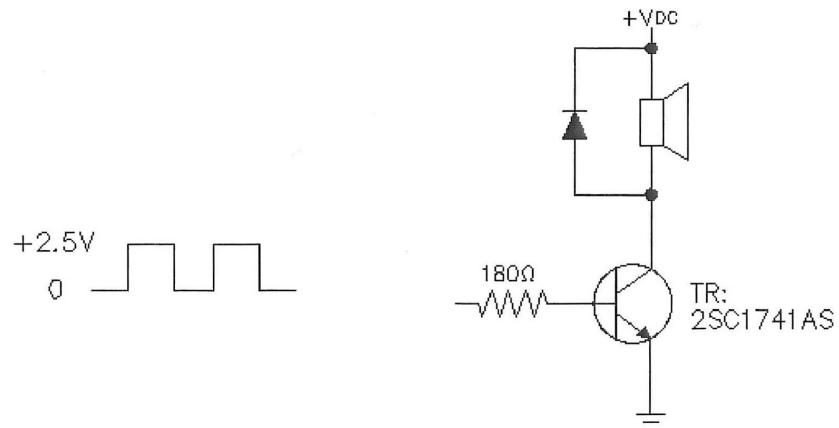
units: mm  
tolerance:  $\pm 0.5$  mm



## FREQUENCY RESPONSE CURVE



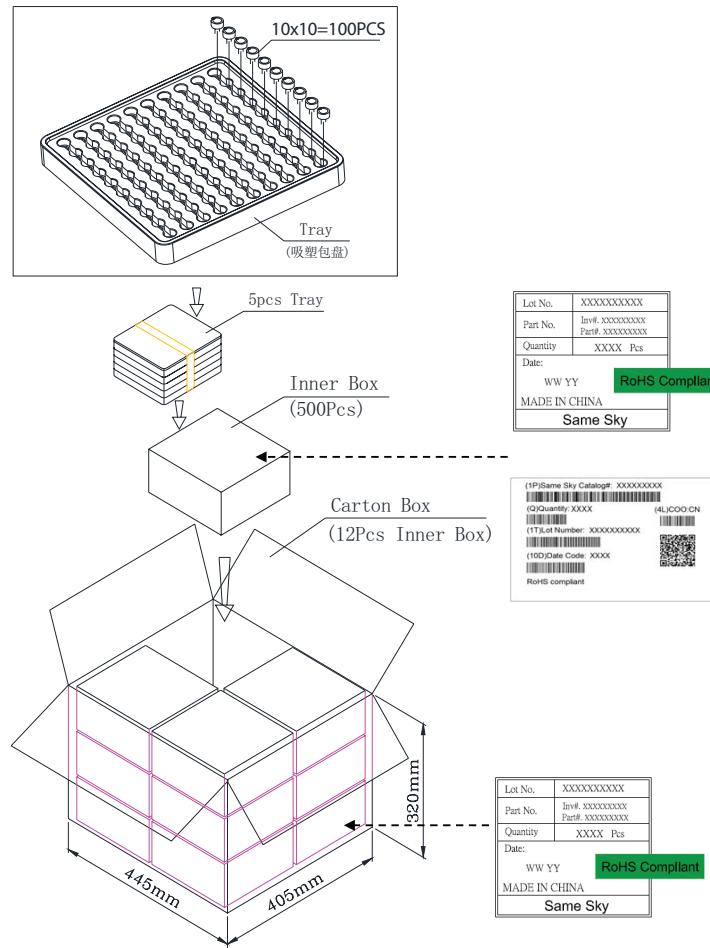
## APPLICATION CIRCUIT



## PACKAGING

units: mm

Tray Size: 184 x 180 x 23 mm  
Carton Box Size: 445 x 405 x 320 mm  
Tray QTY: 100 pcs per box  
Carton Box QTY: 6,000 pcs per carton



## REVISION HISTORY

rev.	description	date
1.0	initial release	08/11/2006
1.01	brand update	12/20/2019
1.02	modified housing	09/15/2021
1.03	logo, datasheet style update	08/05/2022
1.04	CUI Devices rebranded to Same Sky	09/11/2024
1.05	changed to laser print marking	01/29/2025

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.