CUI INC®

MODEL: CDS-25148 | DESCRIPTION: SPEAKER

FEATURES

- micro-speaker
- small footprint
- rated 1.5 W

RoHS

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		1.5	2.0	W
impedance	at 1.4 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 1.5 W, 0.1 m ave, at 1.0, 1.2, 1.5, 2.0 kHz at 1.0 W, 1.0 m ave, at 1.0, 1.2, 1.5, 2.0 kHz	91 70	94 73	97 76	dB dB
distortion	at 1.4 kHz, 1.5 W			5	%
buzz, rattle, etc.	must be normal at sine wave between Fo ~ 20 kHz		3.46		V
polarity	cone will move forward with positive dc current to "+" terminal				
dimensions	25 x 14.0 x 4.5				mm
magnet	Nd-Fe-B, Ø6.8 x 1.5				mm
material	ABS UL-94 1/16" HB (black)				
cone material	cloth				
terminal	solder pads				
weight			1.72		g
operating temperature		-20		55	°C
storage temperature		-30		70	°C
RoHS	2011/65/EU				

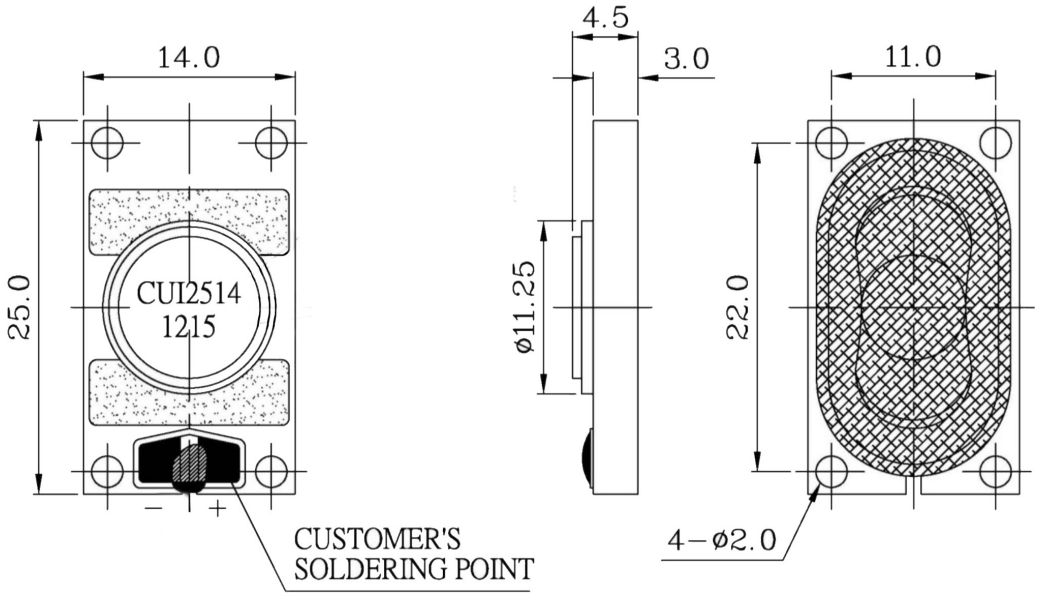
Notes: 1. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106kPa pressure, unless otherwise noted.

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 3 ±1 seconds	360	370	380	°C

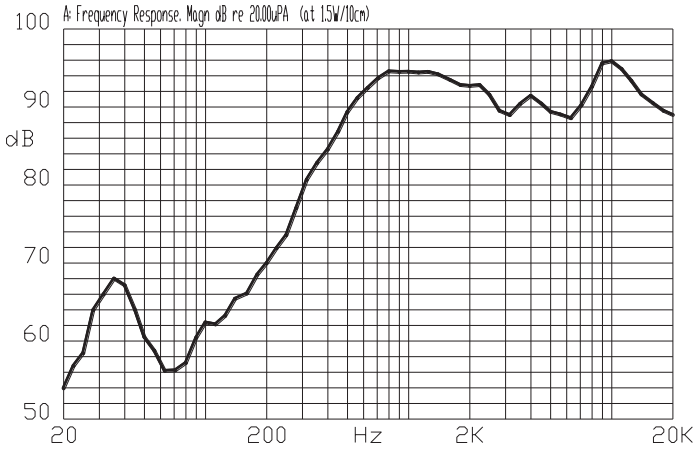
MECHANICAL DRAWING

units: mm
tolerance: ±0.2 mm

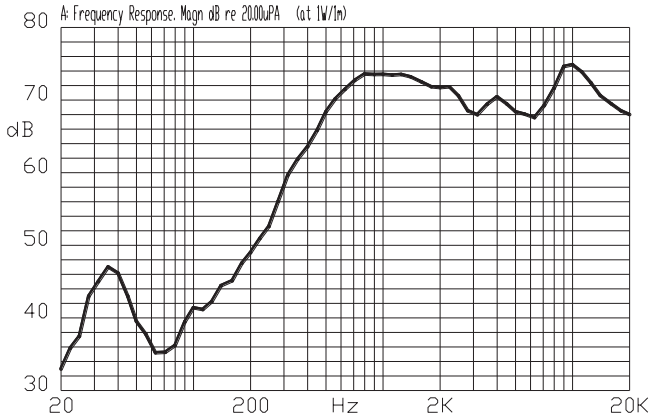


FREQUENCY RESPONSE CURVES

Frequency Response Curve (1.5 W, 0.1m)



Frequency Response Curve (1.0 W, 1.0m)



REVISION HISTORY

rev.	description	date
1.0	initial release	04/28/2015
1.01	updated datasheet	07/23/2015

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

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