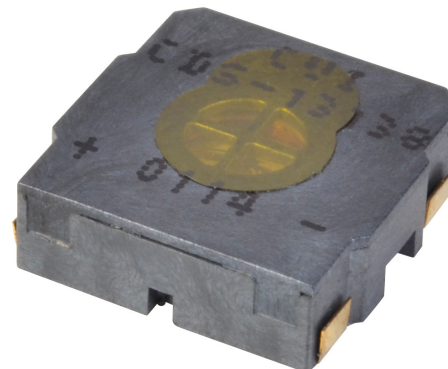


MODEL: CDS-13138-SMT | **DESCRIPTION:** SPEAKER**FEATURES**

- SMT (surface mount) speaker
- reflow solder capable
- wide operating temp range
- compact size

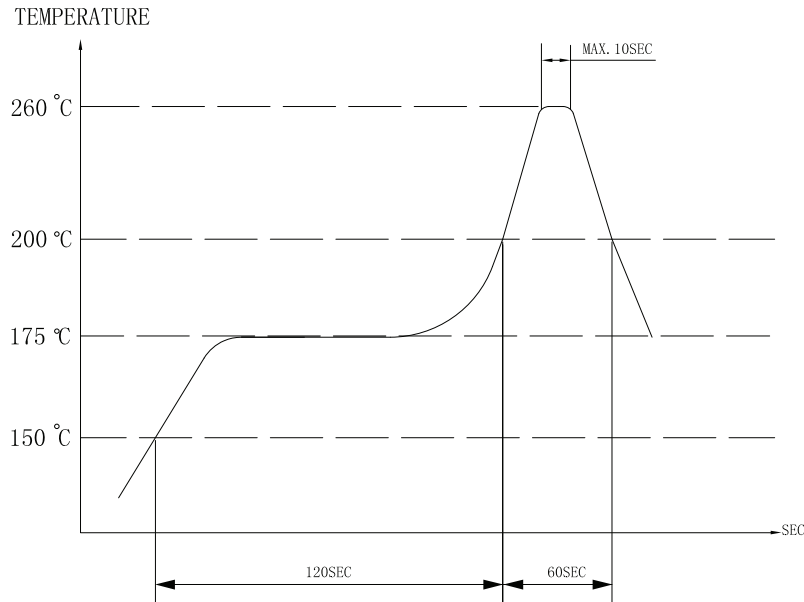
**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input power	maximum power: IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp		0.7	1.0	W
impedance	at 1.5 kHz, 1.0 V	6.8	8	9.2	Ω
resonant frequency (Fo)	at 1.0 V	840	1,050	1,260	Hz
frequency response	output SPL ± 10 dB	Fo		20,000	Hz
sound pressure level	at 0.7 W, 0.1 m ave, at 1.0, 1.6, 2.0, 3.2 kHz at 1.0 W, 1.0 m ave, at 1.0, 1.6, 2.0, 3.2 kHz	84 67	87 70	90 73	 dB dB
distortion	at 2.0 kHz, 0.7 W			5	%
buzz, rattle, etc.	must be normal at sine wave between Fo ~ 20 kHz		2.37		V
dimensions	13 x 13 x 4.0				mm
magnet	Sm ₂ Co ₁₇ , $\varnothing 6.0 \times 1.0$ mm				
material	LCP				
cone material	PI				
terminal	surface mount, Au plating				
weight			1.1		g
operating temperature		-40		85	$^{\circ}\text{C}$
storage temperature		-40		85	$^{\circ}\text{C}$
washable	yes				
RoHS	yes				

Notes: 1. All specifications measured at 5-35 $^{\circ}\text{C}$, humidity at 45-85%, under 86-106kPa pressure, unless otherwise noted.
2. Add suffix "-TR" to the model for tape and reel packaging.

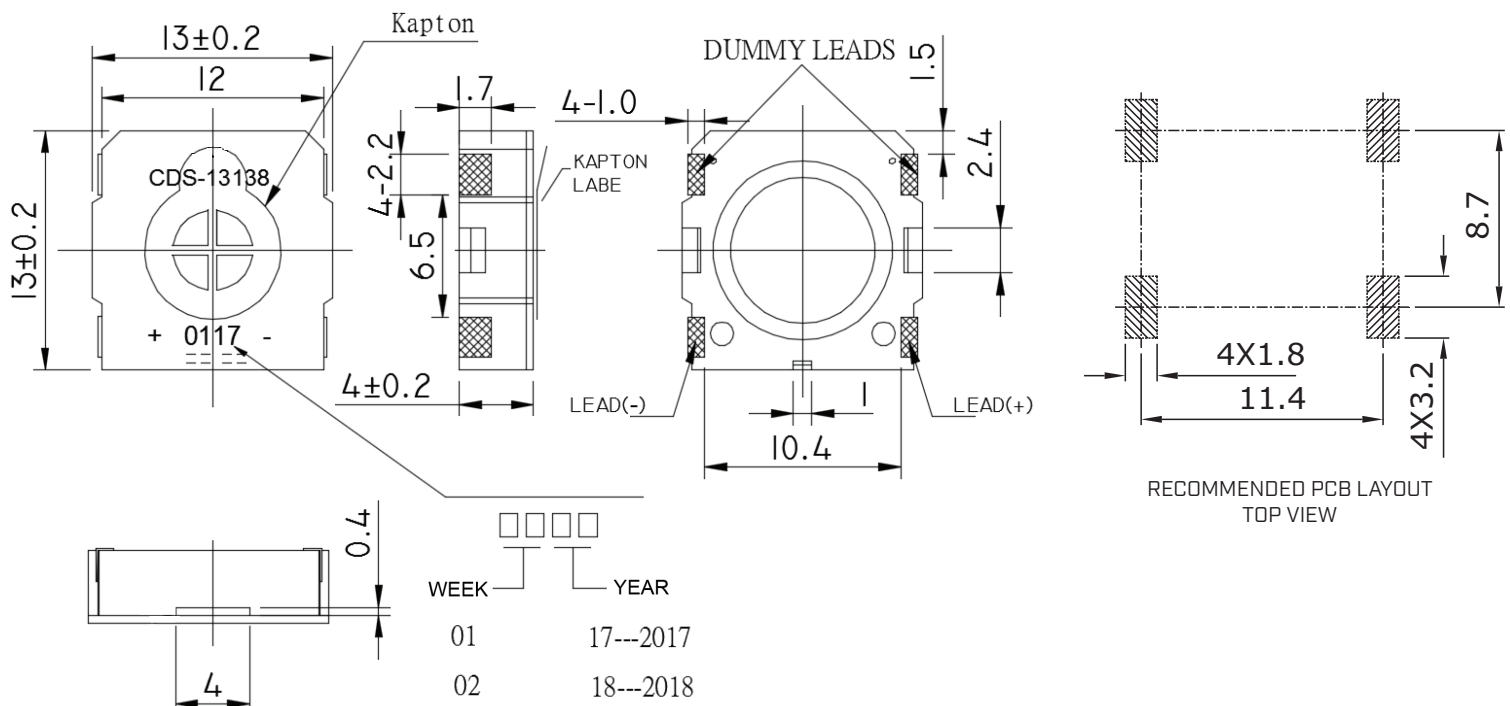
SOLDERABILITY

parameter	conditions/description	min	typ	max	units
reflow soldering	see reflow profile			260	°C



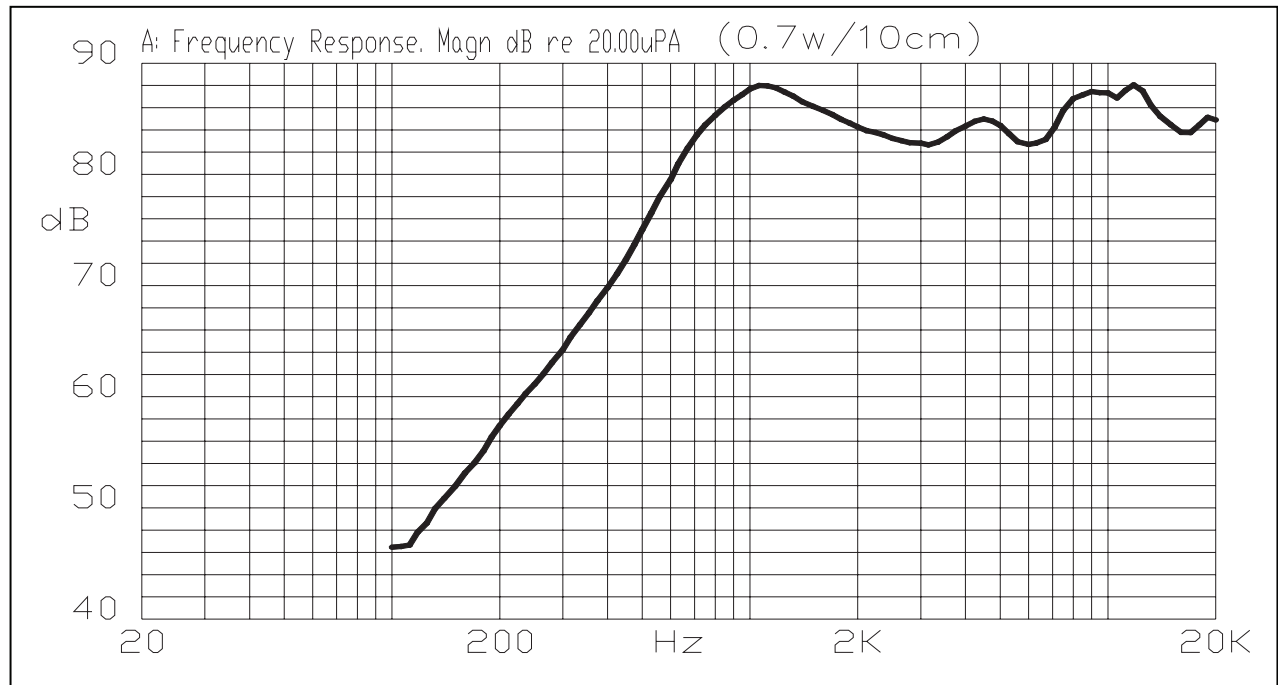
MECHANICAL DRAWING

units: mm
tolerance: ± 0.25 mm

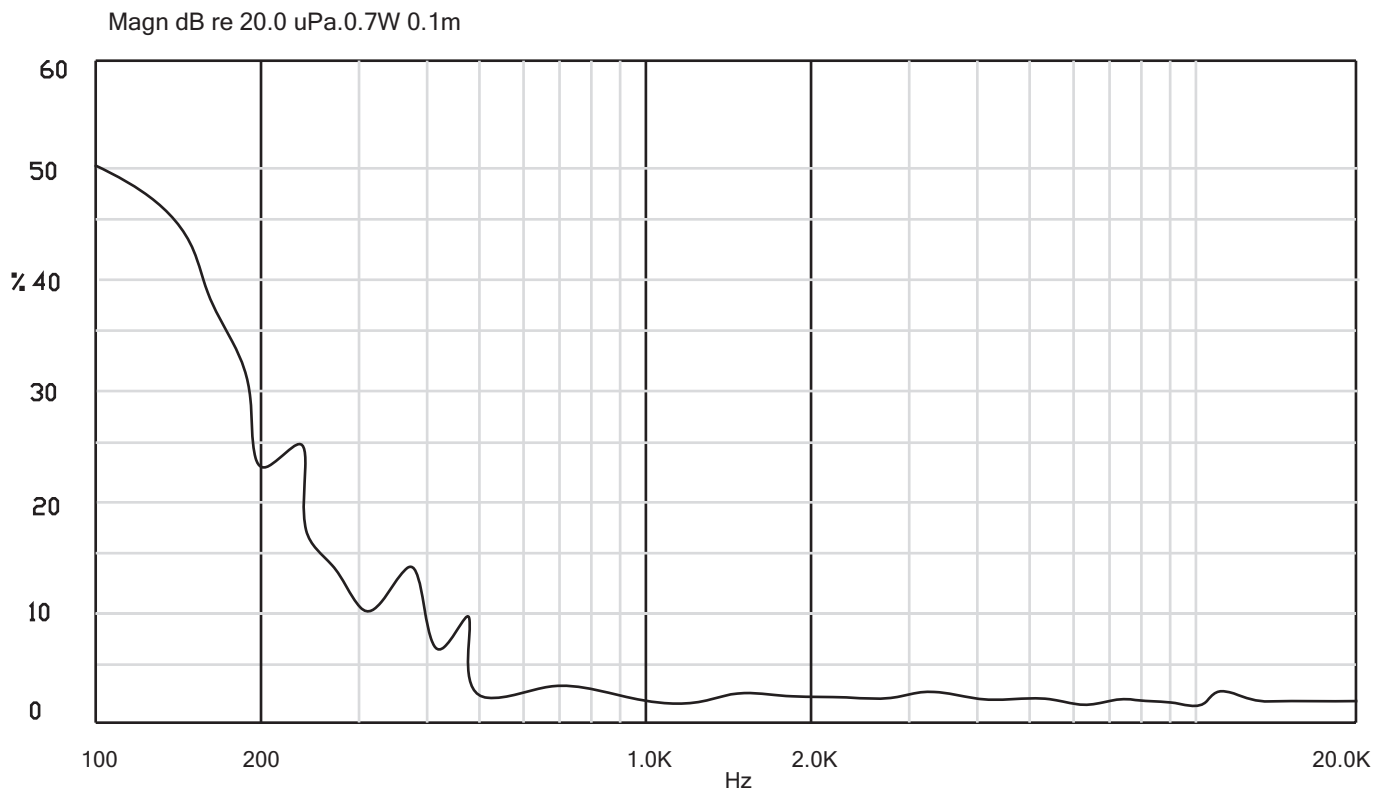


RESPONSE CURVES

Frequency Response Curve



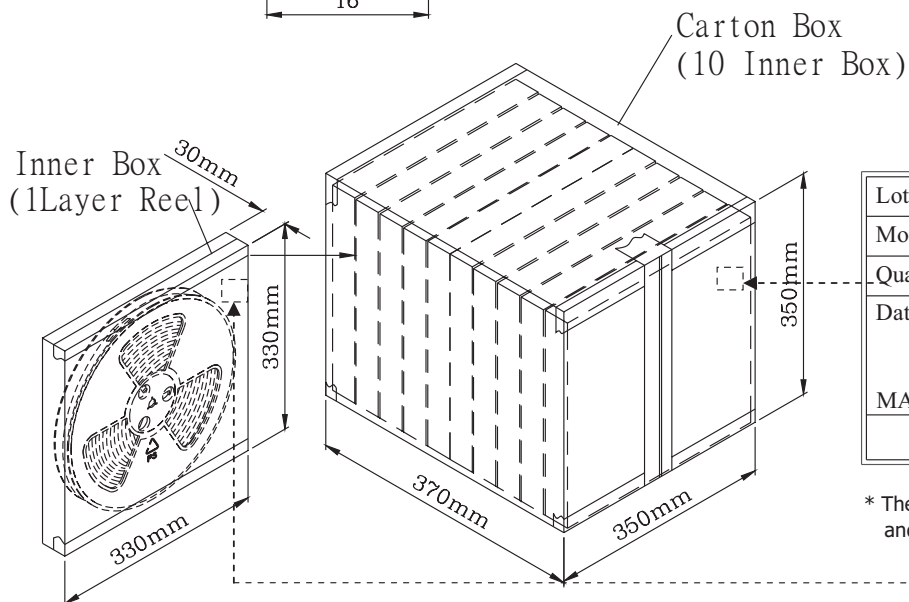
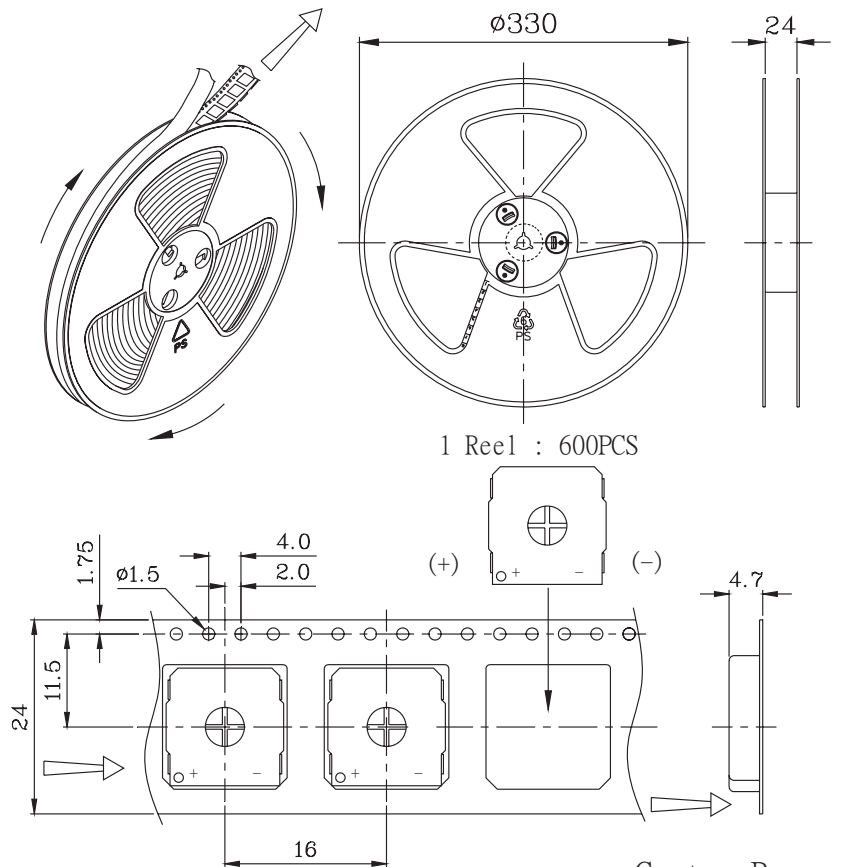
Total Harmonic Distortion Curve



PACKAGING

units: mm

Reel Size: $\varnothing 330$ mm
Inner Box Size: 320 x 330 x 30 mm
Carton Size: 370 x 350 x 350 mm
Reel QTY: 600 pcs per reel
Inner Box QTY: 600 pcs per inner box
Carton Box QTY: 6,000 pcs per carton box



Lot No.	XXXXXXXXXX
Model No.	XXXXXXXXXX
Quantity.	XXXX Pcs
Date:	DD MM YY
	MADE IN CHINA

* The label stuck on inner boxes and the outer of carton.

REVISION HISTORY

rev.	description	date
1.0	initial release	03/12/2015
1.01	added notch to housing	05/16/2017
1.02	changed resonant frequency	07/18/2017
1.03	brand update	01/20/2020
1.04	logo, datasheet style update	08/05/2022

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



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

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