

date 07/18/2017

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MODEL: CDS-13138-SMT | DESCRIPTION: SPEAKER

FEATURES

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





SPECIFICATIONS

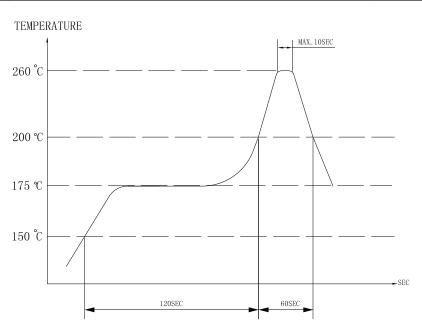
	rameter	conditions/description	min	typ	max	units
resonant frequency (Fo) at 1.0 V 840 1,050 1,260 frequency response output SPL ±10 dB Fo 20,000 sound pressure level at 0.7 W, 0.1 m ave, at 1.0, 1.6, 2.0, 3.2 kHz 84 87 90 at 1.0 W, 1.0 m ave, at 1.0, 1.6, 2.0, 3.2 kHz 67 70 73 distortion at 2.0 kHz, 0.7 W 5 buzz, rattle, etc. must be normal at sine wave between Fo ~ 20 kHz 2.37 dimensions 13 x 13 x 4.0 magnet Sm ₂ Co ₁₇ , Ø6.0 x 1.0 mm material LCP cone material mylar terminal surface mount, Au plating weight 1.1 operating temperature -40 85 storage temperature -40 85	put power			0.7	1.0	W
frequency response output SPL ± 10 dB Fo 20,00 sound pressure level at 0.7 W, 0.1 m ave, at 1.0, 1.6, 2.0, 3.2 kHz 84 87 90 at 1.0 W, 1.0 m ave, at 1.0, 1.6, 2.0, 3.2 kHz 67 70 73 distortion at 2.0 kHz, 0.7 W 5 buzz, rattle, etc. must be normal at sine wave between Fo ~ 20 kHz 2.37 dimensions $13 \times 13 \times 4.0$ magnet Sm_2Co_{17} , $\emptyset 6.0 \times 1.0$ mm LCP cone material LCP cone material surface mount, Au plating weight 1.1 operating temperature 40 85 storage temperature 40 85	pedance	at 1.5 kHz, 1.0 V	6.8	8	9.2	Ω
sound pressure level at 0.7 W , 0.1 m ave, at 1.0 , 1.6 , 2.0 , 3.2 kHz 84 87 90 distortion at 2.0 kHz , 0.7 W 5 buzz, rattle, etc. must be normal at sine wave between Fo $\sim 20 \text{ kHz}$ 2.37 dimensions $13 \times 13 \times 4.0$ magnet Sm_2Co_{17} , $\emptyset 6.0 \times 1.0 \text{ mm}$ material LCP cone material mylar terminal surface mount, Au plating weight 1.1 operating temperature -40 85 storage temperature -40 85	sonant frequency (Fo)	at 1.0 V	840	1,050	1,260	Hz
at 1.0 W, 1.0 m ave, at 1.0, 1.6, 2.0, 3.2 kHz 67 70 73 distortion at 2.0 kHz, 0.7 W 5 buzz, rattle, etc. must be normal at sine wave between Fo \sim 20 kHz 2.37 dimensions $13 \times 13 \times 4.0$ $13 \times 13 \times 13 \times 4.0$ $13 \times 13 $	equency response	output SPL ±10 dB	Fo		20,000	Hz
buzz, rattle, etc. must be normal at sine wave between Fo $\sim 20 \text{ kHz}$ 2.37 dimensions $13 \times 13 \times 4.0$ magnet $\text{Sm}_2\text{Co}_{17}$, $\emptyset 6.0 \times 1.0 \text{ mm}$ material LCP cone material mylar terminal surface mount, Au plating weight 1.1 operating temperature -40 85 storage temperature -40 85	und pressure level					dB dB
dimensions $13 \times 13 \times 4.0$ magnet Sm_2Co_{17} , $\emptyset 6.0 \times 1.0$ mm material LCP cone material mylar terminal surface mount, Au plating weight 1.1 operating temperature -40 85 storage temperature -40 85	stortion	at 2.0 kHz, 0.7 W			5	%
magnet Sm ₂ Co ₁₇ , Ø6.0 x 1.0 mm material LCP cone material mylar terminal surface mount, Au plating weight 1.1 operating temperature -40 85 storage temperature -40 85	ızz, rattle, etc.	must be normal at sine wave between Fo ~ 20 kHz		2.37		V
material LCP cone material mylar terminal surface mount, Au plating weight 1.1 operating temperature -40 85 storage temperature -40 85	mensions	13 x 13 x 4.0				mm
cone material mylar terminal surface mount, Au plating weight 1.1 operating temperature -40 85 storage temperature -40 85	agnet	Sm ₂ Co ₁₇ , Ø6.0 x 1.0 mm				
terminal surface mount, Au plating weight 1.1 operating temperature -40 85 storage temperature -40 85	aterial	LCP				
weight 1.1 operating temperature -40 85 storage temperature -40 85	ne material	mylar				
operating temperature -40 85 storage temperature -40 85	rminal	surface mount, Au plating				
storage temperature -40 85	eight			1.1		g
	erating temperature		-40		85	°C
washable yes	orage temperature		-40		85	°C
	ashable	yes				
RoHS 2011/65/EU	oHS	2011/65/EU				

Notes:

1. All specifications measured at $5\sim35^{\circ}$ C, humidity at $45\sim85\%$, under $86\sim106$ kPa pressure, unless otherwise noted. 2. Add suffix "-TR" to the model for tape and reel packaging.

SOLDERABILITY

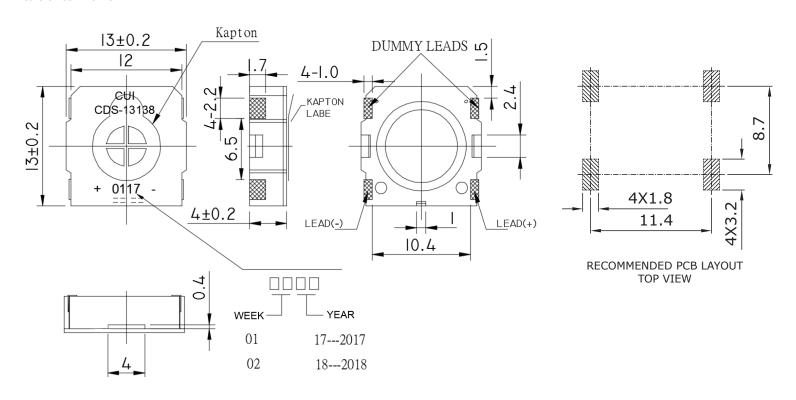
parameter	conditions/description	min	typ	max	units
reflow soldering	see reflow profile			260	°C



MECHANICAL DRAWING

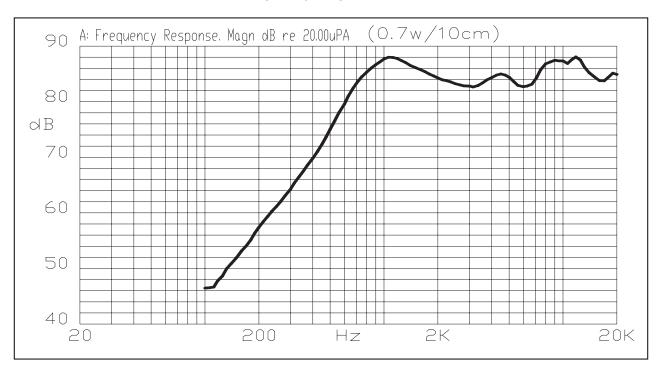
units: mm

tolerance: ±0.25 mm

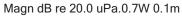


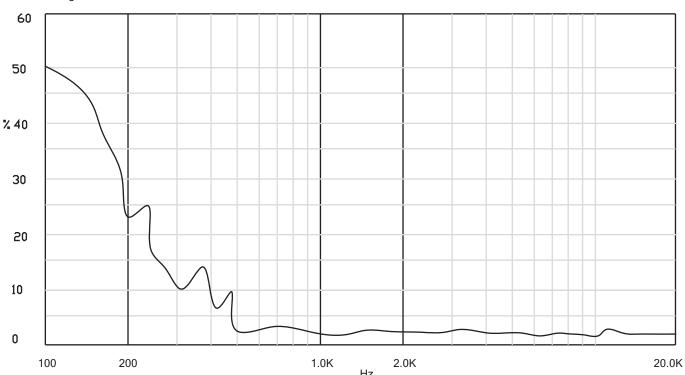
RESPONSE CURVES

Frequency Response Curve



Total Harmonic Distortion Curve





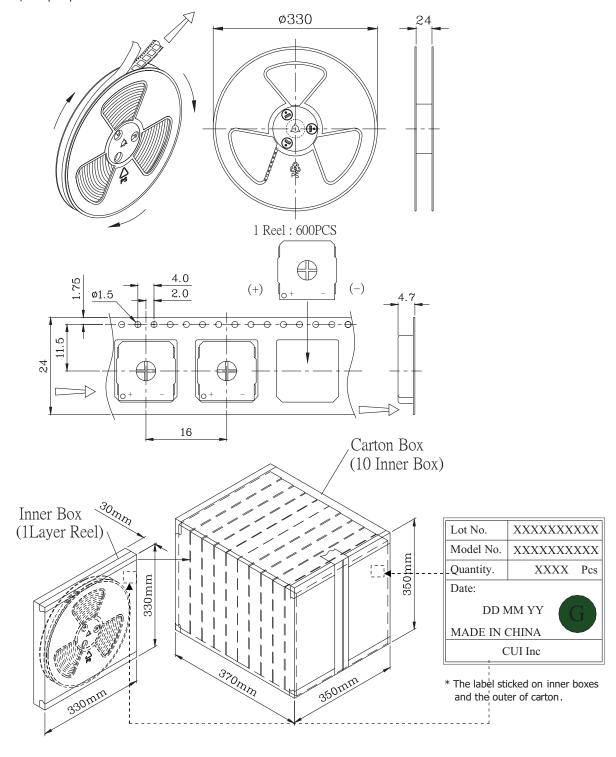
PACKAGING

units: mm

Reel Size: Ø330 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



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

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



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

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